

<210> 1382  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1382

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ccgagcgctg ccttgactgg ggcgaggcgg gcggccccga cctcatcgtc gacgacggcg 60
gcgacgccac gctgctcatc cacgaggggtg tcaaggccga ggaggagtac gagaagaccg 120
gcaagatccc cgacncggag tccaccgaca acgctgagtt caagatcgtg ctcaccatca 180
tccgcgacgg gctcaaggct gaccccaaga agtaccgcaa gatgaaggag aggcttgtcg 240
gcgtctctga ggagaccacc acgggtgtca agaggctcta ccagatgcag gagaccggcg 300
ccctcctctt ccctgccatt 320
```

<210> 1383  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1383

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ctcaaggctg accccaagaa gtaccgcaag atgaaggaga ggcttgtcgg cgtctctgag 60
gagaccacca cgggtgtcaa gaggtcttac cagatgcagg agaccggcgc cctcctcttc 120
cctgccatta acgtcaacga ttccgtcacc aagagcaagt ttgacaacct gtatggttgc 180
cggcactcgc tccctgatgg tctgatgagg gccactgacg ttatgatcgc cggtaagggtt 240
gctgtggtct gcggatacng tgatgtcggc aagggttgtg ctgctgcctn aaacaggctg 300
gtgccccgtg tcattgtgac ccagatcgac cccatctgtg cccttcaagc ttctgatnga 360
nggncttcan gtccttcctt tggaaggacg ttgtntttgn aacttgacat tttngntgg 420
accaccactt gggaacaagg ggtnttatta ttggg 455
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<210> 1384  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<400> 1384

cgagatcgac cccatctgtg ccctccaggc tctgatggag ggtcttcagg tccttccctt 60  
ggaggacgtt gtctctgaag ctgacatctt cgtgaccacc actggcaaca aggatatcat 120  
catggttgac cacatgagga agatgaagaa caatgccatt gtctgcaaca ttggccactt 180  
tgacaatgaa attgatatgc tcggccttga gacctaccct ggcgtcaagc gcatcaccat 240  
caagccccag actgaccgct ggggtgtccc cgagaccaac actggcatca ttgtccttgc 300  
tgagggtcgc ctgatga 317

<210> 1385  
<211> 332  
<212> DNA  
<213> Zea mays

<400> 1385

gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct 60  
tgagacctac cctggcgta agcgcatcac catcaagccc cagactgacc gctgggtgtt 120  
cçcgagacca aactggcat cattgtcctt gctgagggtc gcctgatgaa ccttgggtgt 180  
gctactggcc atcctagctt tgtcatgtcc tgctcattca ctaaccaggt cattgccc aa 240  
cttgaactgt ggaaggagaa gagctctggc aagtatgaga agaaggtgta tgtgtctccc 300  
aagcaccttg atgagaaggt tgctgtctc ca 332

<210> 1386  
<211> 337  
<212> DNA  
<213> Zea mays

<400> 1386

cggcgccctc ctcttccctg ccattaacgt caacgattcc gtcaccaaga gcaagtttga 60  
caacctgtat ggttgccgcc actcactccc tgatggtctg atgagggcca ccgacgttat 120  
gatcgccggt aaggttgccg tggctctcgg atacggtgat gttggcaagg gttgtgccgc 180  
tgcaactcaag caggctggtg cccgtgtcat tgtgaccgag atcgacccca tctgcgccct 240  
ccaggctctg atggagggtc ttcaggctct tcccttggag gagttgtctc ggaagctgac 300  
atcttcgtga ccacccatgg caacaaggat atcatca 337

<210> 1387

<211> 316  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1387

gtcttcaggt ccttcccttg gaggacgttg tctctgaagc tgacatcttc gtagaccacca 60  
 ctggcaacaa ggatatcatc atgggtgacc acatgaggaa gatgaagaac aatgccattg 120  
 tctgcaacat tggccacttt gacaatgaaa ttgatatgct cggccttgag acctaccctg 180  
 gcgtcaagcg catcaccatc aagccccaga ctgaccgctg ggtgttcccc gagaccaaca 240  
 ctggcatcat tgtccttgct ganggtcgcc tgatgaacct tgggtgtgct actggccatc 300  
 ctagctttgt catgtc 316

<210> 1388  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1388

gcgctcggcg ccgaggtccg ctggtgctcc tgcaacatct tctccacgca ggaccacgcc 60  
 gccgccgcca tcnccgcgna ctcgcccgcc gtgttcgcct ggaaggggga gacccttgan 120  
 gagtactggt ggtgcaccga gcgctgcctt gactggnngcg angcgggcg ccccnacctc 180  
 atcgctgacg acggcggcga cgccacgctg ctcatccacg aggggtgtcaa ggccgaggag 240  
 gagtacgaga agaccggcaa gatccccgac ccggagtcca ccgacaacgc tgagttcaag 300  
 atcgtggtca ccac 315

<210> 1389  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<400> 1389

tctgaggaga ccaccacggg tgtcaagagg ctctaccaga tgcaggagac cggcgccctc 60  
 ctcttccctg ccattaacgt caacgattcc gtcaccaaga gcaagtttga caacctgtat 120  
 ggttgccgcc actcgctccc tgatggtctg atgagggccca ctgacgttat gatcgccgga 180

aaggttgccg tggctctgcg atacggtgat gtcggcaagg gttgtgctgc tgccctcaag 240  
caggctggtg cccgtgtcat tgtgaccgag atcgacccca tctgtgccct ccaggctctg 300  
atggagggtc 310

<210> 1390

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1390

ggggtctctc cacatgacca tccagacnng caagatcccc gatccggagt ccaccngna 60  
cgctgagttc aagatcgtgc tcaccatcat ccgcgacggg ctcaaggctg accccaagan 120  
gtaccgcaag atgaaggaga ggcttgtcgg cgtctntgag gagaccacca cgggtgtcaa 180  
gaggctctac cagatgcagg agaccggcgc cctcctcttc ctgccattaa cgtcaacgat 240  
tccgtcacca agagcaagtt tgacaacctg tatggttgcc gncactcgct ccctgatggt 300  
ctgatgaagg gccactgacc ttatgatcgc ccgaaanggt gccgtggtct gcggataccg 360  
tgatgtcngc aaagggttgt gcttnttnan ttaaancang cttggtggcc ctgtcantnt 420  
gaaccananc caancccatn tttggnccct cagggtt 457

<210> 1391

<211> 520

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1391

agttnattna aggnnggngg ntgnaagnta tactcgtncg gaattcccgg gtcgaccac 60  
gcgtccgata tcncagaccc aattcgngag ttctnnntan tctgccgaca tggcgctctc 120  
tgtggagaag acctgntctg gacgggagta caaggtaag gatctctagc aggcggaactn 180  
aggccgacta gagattgagc tggccgaggt cgaaatgccc ggccnatgg cgtgccngc 240  
cgagttcggc ccgtncgaag ccttngccgg cgctaggatc tcgggggtctc tccacatgac 300  
cattcagacc gncgtcctca tcgagacct caccgcgctc ggcccgagg tccgctggtg 360  
ctcctgcaac atcnttcttc acgcangacc acgccgnogn cgtcatcgn cgcgactcgg 420



ccggcgtggt cgccctggaan ggggagaccc ttgangagtc tgggtggtgca ccgnacgctt 480  
gcntanntgg gccaaagcggc cggccccgacc tattgtngac 520

<210> 1392  
<211> 305  
<212> DNA  
<213> Zea mays

<400> 1392

cgtcgacgac ggcggcgacg ccacgctgct catccacgag ggtgtcaagg ccgaggagga 60  
ttacgagaag accggcaaga tctccgaccc ggagtccacc gacaacgctg agttcaagat 120  
cgtgctcacc atcatccgcg acgggctcaa ggctgacccc aagaagtacc gcaagatgaa 180  
ggagaggctt gtcggcgtct ctgaggagac caccacgggt gtcaagaggc tctaccagat 240  
gcaggagacc ggcgcctcc tcttccctgc cattaacgtc aacgattccg tcaccaagag 300  
caagt 305

<210> 1393  
<211> 317  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1393

gtgcccgtgt cattgtgacc gagatcgacc ccattctgnc cctccaggct ctgatggagg 60  
gtcttcagggt ccttcccttg gaggacgttg tctcggaagc tgacatcttc gtgaccacca 120  
ctggcaacaa ggatatcatc atggttgacc acatgaggaa gatgaagaac aatgccattg 180  
tctgcaacat tggccacttt ganaatgaaa ttgatatgct cggccttgag acctaccctg 240  
gcgtcaagcg catcaccatc aagccccaga ctgaccgctg ggtgttcccc gagaccaaca 300  
ctggcatcat tgtcctt 317

<210> 1394  
<211> 309  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1394

gctgccttga ctggggcgag gcgggcggcc ccgacctcat cgtcgacgac ggcgggcgacg 60  
ccâcgcctgct catccacgag ggtgncaagg ccgaggagga gtacgagaag accggcaaga 120  
tccccgaccc ggagtcacc gacaacgctg agttcaagat cgtgctcacc atcatccgcg 180  
acgggctcaa ggctgacccc aagaagtacc gcaagatgaa ggagaggctt gtcggcgtct 240  
ctgaggagac caccacgggt gtcaagaggc tctaccagat gcaggagacc ggcgccctcc 300  
tcttccctg 309

<210> 1395  
<211> 335  
<212> DNA  
<213> Zea mays

<400> 1395  
atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 60  
gctgaggggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 120  
tgctcattca ctaaccaggt cattgccccaa cttgaactgt ggaaggagaa gagctctggc 180  
aagtatgaga agaaggtgta tgtgctcccc aagcaccttg atgagaaggt tgctgctctc 240  
cacttgggca agcttgggtgc caagctgacc aagctcacca agtctcaggc cgactacatc 300  
agcgtgccga tcgaggggtcc ctacaagcct gccc 335

<210> 1396  
<211> 334  
<212> DNA  
<213> Zea mays

<400> 1396  
atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 60  
gctgaggggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 120  
tgctcattca ctaaccaggt cattgccccaa cttgaactgt ggaaggagaa gagctctggc 180  
aagtatgaga agaaggtgta tgtgctcccc aagcaccttg atgagaaggt tgctgctctc 240  
cacttgggca agcttgggtgc caagctgacc aagctcacca agtctcaggc cgactacatc 300  
agcgtgccga tcgaggggtcc ctacaagcct gccc 334

<210> 1397

<211> 317  
 <212> DNA  
 <213> Zea mays  
 <400> 1397  
 aagcgcatca ccatcaagcc ccagactgac cgctgggtgt tccccgagac caacactggc 60  
 atcattgtcc ttgctgaggg tcgcctgatg aaccttgggt gtgctactgg ccaccctagc 120  
 tttgtcatgt cctgctcatt cactaaccag gtcattgccc aacttgaact gtggaaggag 180  
 aagagctctg gcaagtatga gaagaagggtg tatgtgctcc ccaagcacct tgatgagaag 240  
 gttgctgctc tccacttggg caagcttgggt gccaaagctga ccaagctcac caagtctcag 300  
 gccgactaca tcagcgt 317

<210> 1398  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <400> 1398  
 catcatccgc gacgggctca aggctgaccc caagaagtac cgcaagatga aggagaggct 60  
 tgtcggcgctc tctgaggaga ccaccacggg tgtcaagagg ctctaccaga tgcaggagac 120  
 cggcgccctc ctcttccctg ccattaacgt caacgattcc gtcaccaaga gcaagtttga 180  
 caacctgtat gggttgccgc actcgctccc tgatgggtctg atgagggcca ctgacgttat 240  
 gatcgccgga aagggttgccg tgggtctgcgg atacggtgat gtcggcaagg gttgtgctgc 300  
 tgc 303

<210> 1399  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1399  
 agcaggctgg tgcccgtgtc attgtgaccg agatcgaccc catctgcncc ctccaggctc 60  
 tgatggaggg tcttcaggtc cttcccttgg aggacgttgt ctcggaagct gacatcttcg 120  
 tgaccaccac tggcaacaag gatatcatca tggttgacca catgaggaag atgaagaaca 180  
 atgccattgt ctgcaacatt ggccactttg acaatgaaat tgatatnctc ggccttgaga 240

cctaccctgg cgtcaagcgc atcaccatca agccccagac tgaccgctgg gtgttccccg 300  
agaccaacac t 311

<210> 1400  
<211> 308  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1400

caaggatata atcatggttg accacatgag gaagatgaag aacaatgcca ttgtctgcaa 60  
cattggccac tttagacaatg aaattgatat gctcggcctt gagacctacc ctggcgtcaa 120  
gcgcatacacc atcaagcccc agactgaccg ctggnggttc cccgagacca aactggcat 180  
cattgtcctt gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt 240  
tgtcatgtcc tgctcattca ctaaccaggt cattgccc aa cttgaactgt ggaaggagaa 300  
gagctctg 308

<210> 1401  
<211> 309  
<212> DNA  
<213> Zea mays

<400> 1401

ggctggtgcc cgtgtcattg tgaccgagat cgaccccatc tgcgccctcc aggctctgat 60  
ggaggggtctt caggctcttc ccttggagga cgttgtctcg gaagctgaca tcttcgtgac 120  
caccactggc aacaaggata tcatcatggt tgaccacatg aggaagatga agaacaatgc 180  
cattgtctgc aacattggcc actttgacaa tgaaattgat atgctcggcc ttgagaccta 240  
ccctggcgtc aagcgcata ccatcaagcc ccagactgac cgctgggtgt tccccgagac 300  
caacactgg 309

<210> 1402  
<211> 311  
<212> DNA  
<213> Zea mays

<400> 1402

cttcgtgacc accactggca acaaggatat catcatgggt gaccacatga ggaagatgaa 60  
gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct 120  
tgagacctac cctggcgtca agcgcatcac catcaagccc cagactgacc gctgggtgtt 180  
ccccgagacc aacactggca tcattgtcct tgctgagggg cgctgatga accttgggtg 240  
tgctactggc catcctagct ttgtcatgtc ctgctcattc actaaccagg tcattgccaa 300  
cttgaactgt g 311

<210> 1403  
<211> 338  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<400> 1403

gtttgacaac ctgtatgggt gccgccactc gctccctgat ggtctgatga gggccactga 60  
cgttatgata gccggaaaang ttgccgtggg ctgcggatac ggtgatgtcg gcaagggttg 120  
tgctgctgcc ctcaagcagg ctgggtgccc tgctattgtg accgagatcg accccatctg 180  
tgccctccag gctctgatgg aggggtcttca ggctcttccc ttggaggacg ttgtctctga 240  
agctgacatc ttcgtgacca ccaactggca caaggatata atcaggttga ccacatgang 300  
aagatgaaga acaatgccat gtctgcaaca tggccant 338

<210> 1404  
<211> 306  
<212> DNA  
<213> Zea mays

<400> 1404

ggagacctac cctggcgtca agcgcatcac catcaagccc cagactgacc gctgggtgtt 60  
ccccgagacc aacactggca tcattgtcct tgctgagggg cgctgatga accttgggtg 120  
tgctactggc catcctagct ttgtcatgtc ctgctcattc actaaccagg tcattgcccc 180  
acttgaactg tggaaggaga agagctcttg caagtatgag aagaagggtg atgtgctccc 240  
caagcacctt gatgagaagg ttgctgctct ccacttgggc aagcttgggtg ccaagctgac 300  
caagct 306

<210> 1405  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1405

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anangctncn gcggtctcct gntacaanag annnnnnnnaa nggttgngct natgccgtna 60
ancaanntga ngcccgagtc attgtnaccg agatcgaccc catctgtgcc ctncaggctc 120
tgatggaggg tcttcaggtc cttcccttgn aggacgttgt ctctgaagct gacatcttcg 180
tgaccaccac tggcaacaag gatatcatca tggttgacca catgaggaag atgaagaaca 240
atgccattgt ctgcaacatt ggccactttg acaatgaaat tgatatgctc ggccttgaga 300
cctaccctgn cgtcaagcgc atcaccatca agccccagac tgaccgctgg gtgttccccg 360
agaccaacac ttggcattca ttgtccttgc tgaaggtcnc cctgattaac ctttggttgt 420
gcta 424
```

<210> 1406  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<400> 1406

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gtgaccgaga tcgaccccat ctgtgccctc caggctctga tggagggctc tcaggtcctt 60
cccttgaggg acgttgtctc tgaagctgac atcttcgtga ccaccactgg caacaaggat 120
atcatcatgg ttgaccacat gaggaagatg aagaacaatg ccattgtctg caacattggc 180
cactttgaca atgaaattga tatgctcggc cttgagacct accctggcgt caagcgcac 240
accatcaagc cccagactga ccgctgggtg ttccccgaga ccaacactgg catcattgt 299
```

<210> 1407  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1407

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gcccgtccaa gcccttcgcc ggcgctagga tctcggggtc tctccacatg accatccaga 60
ccgccgtcct catcgagacc ctcaccgcgc tcggcgccga ggtccgctgg tgctcctgca 120
```

acatcttctc cacgcaggac cacgccgccg ccgccatcgc gcgcnactcg gccgccgtgt 180  
tcgcctggna gggggagacc ctcgaggagt actggtggtg caccgagcgc tgcctcgact 240  
ggngcgangc gggcggnccc gacctcatcg tcgacgacgg cggcgacgcc acgtgtctc 299

<210> 1408

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1408

cacgcaggac cacgccgccg ccgccatcgc gcgcgactcg gccgccgtgt tcgcctggna 60  
gggggagacc cttgaggagt actggtggtg caccgagcgc tgccttgact ggggcgagggc 120  
gggcggcccc gacctcatcg tcgacgacgg cggcgacgcc acgtgtctca tccacgaggg 180  
tgtcaaggcc gaggaggagt acgagaagac cggcaagatc cccgacccgg agtccaccga 240  
caacgctgag ttcaagatcg tgctcaccat catccgcgac gggctcaagg ctgaccccaa 300  
gaa 303

<210> 1409

<211> 494

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1409

gggttnnga aattcctacg ntctcggnat cggtcntnaa ttcacgggtc gacccacgct 60  
ccanttacaa ttcncatct cccatgattc aatttcgcga agttctccct cctctgcccc 120  
atggcgctct ctgtgganaa gacctcgtct ggacgggagt acaagggtcaa ggatctccgc 180  
angcggactt cggncgcctc gagattgagc tggccgaggt cgaaatgccc ggctctggc 240  
gttgccgcgc cgagttcggc ccgtcnaagc ccttcgctgg cgctaggatc tcgggtctct 300  
ccacatgacc atccaaaccg ccgtcctcat cgagaccctc accgcgctcg gcgcgaggtc 360  
cgctggtgct cctgcaacat cttctccacg cangaccacg ccgccgccgc catgcgcgcg 420  
actcggccgc cgntgttcnc cctggaangg gggaaaacct ccaagaanta ctgtggttca 480  
ancgagccgc tgnt 494

<210> 1410  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1410

cnggggtctcn ccacatgacc atccagaccg ccgctcctcat cgagaccctc accgcgctcg 60  
 gcgcccagagt ccgcnggtgc ncttgcaaca ncttcnccac gcaggaccac gccgcngccg 120  
 ccatcgcgcg cgantcggcc gcngtgtncg cctggaaggg ggagaccctc gangagtact 180  
 gngnggtgcac cgagcgctgc ctcgactggn gcgangcggg cggccccgac ctcatcgctg 240  
 acgacggcgg cgacgccacg ctgctcatcc acgaggggtgt caangccgag gaggattac 299

<210> 1411  
 <211> 302  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1411

cgctcgacnac ggcggcgacg ccacgctgct catccacgag ggtgtcaagg ccgangagga 60  
 ttacgagaag accggcaaga tctccgaccc ggagtcacc gacaacgctg agttcaagat 120  
 cgtgctcacc atcatccgcg acgggctcaa ggctgacccc aagaagtacc gcaagatgaa 180  
 ggagaggctt gtcggcgtct ctgaggagac caccacgggt gtcaagaggc tctaccagat 240  
 gcagganacc ggcgccctcc tcttccctgc cattaacgtc nacgattccg tcaccaagag 300  
 ca 302

<210> 1412  
 <211> 485  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1412

ccatttcccc atctcccaga tccaattcnc nagttcttcc tcctctgccg ccatggcgct 60  
 ntntgtggag aagacctcgt ctggacggga gtacaagggtc aaggatctct cgcaggcgga 120



cttcggtcgc ctcgagattg agctggccga ggtcgaaatg cccggcctca tggcgtgccg 180  
cgccgagttc ggcccgtcca agcccttcgc cggcgctagg atctcggggt ctcttcacat 240  
gaccatccag accgncgtcc tcatcgagac cctcaccgng ctcggcgccg aggtccgctg 300  
gtgctctgca acatcttntt cacgcaagga cacgccgncg gccgncatcg cgcgcgactc 360  
ggccggcgng ttcgcctgga aagggggaga ccctttgagg agtactggtg gtgcaccgag 420  
ccgcttgnet tganttgggg ccaggcnggg cggcccgaac ctnaatggtg gacaacnggg 480  
gggaa 485

<210> 1413  
<211> 311  
<212> DNA  
<213> Zea mays

<400> 1413  
atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 60  
gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 120  
tgctcattca ctaaccaggt cattgcccaa cttgaactgt ggaaggagaa gagctctggc 180  
aagtatgaga agaaggtgta tgtgtctccc aagcaccttg atgagaaggt tgctgtcttc 240  
cacttgggca agcttgggtg caagctgacc aagctcacca agtctcaggc cgactacatc 300  
agcgtgccga t 311

<210> 1414  
<211> 311  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1414

tctgaggaga ccaccacggg tgtcaagagg ctctaccaga tgcaggagac cggcgccctc 60  
ctcttccctg ccattaacgt caacgattcc gtcaccaaga gcaagtttga caacctgtat 120  
ggttgccgcc actcgtccc tganggtctg atgagggccca ctgacgttat gatcgccgga 180  
aaggttgcn g tggntn g cgg atacgggtgat gtcggcaagg gttgtgctgc tgccctcaag 240  
caggctggtg cccgtgtcat tgtgaccgan atcnacccca tctgtgnctc caggctctga 300  
tggaggggtct t 311

<210> 1415  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1415

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cncgctcggc gccgaggtcc gctggtgctc ctgcaacatc ttctccacgc aggaccacgc 60
cgccgcgcgc atcgcgcgcg actcggccgc cgtgttcgcc tggaaggggg agaccctcga 120
ggagtactgg tgggtgcaccg agcgctgcct cgactggggc gaggcgggcg gccccgacct 180
catcgtcgac gacggcggcg acgccacgct gctcatccac gaggggtgtca aggccgagga 240
ggattacgag aagaccggca agatccccga cccggagtcc 280
```

<210> 1416  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<400> 1416

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gagatcgacc ccactctgcgc cctccaggct ctgatggagg gtcttcaggc ccttccttg 60
gaggacgttg tctcggaagc tgacatcttc gtgaccacca ctggcaacaa ggatatcatc 120
atggttgacc acatgaggaa gatgaagaac aatgccattg tctgcaacat tggccacttt 180
gacaatgaaa ttgatatgct cggccttgag acctaccctg gcgtcaagcg catcaccatc 240
aagccccaga ctgaccgctg ggtgttcccc gagaccaaca ctggcatcat tgtcc 295
```

<210> 1417  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1417

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ctggcgtcaa gcgcatacc atcaagcncc agactgaccg ctgggtgttc cccgagacca 60
aactggcat cattgtcctt gctgagggtc gcctgatgaa ccttgggtgt gctactggcc 120
atcctagctt tgtcatgtcc tgctcattca ctaaccaggc cattgcccga cttgaactgt 180
ggaaggagaa gagctctggc aagtatgaga agaaggtgta tgtgtctccc aagcaccttg 240
```

atgagaaggt tgctgctctc cacttgggca agcttgggtgc caagctggac caagctcacc 300  
aagtctcagg ccgatacatc agcgtgccga tcgnggtcct acaagcctg 349

<210> 1418  
<211> 292  
<212> DNA  
<213> Zea mays

<400> 1418

ctgatgaggg ccaccgacgt tatgatcgcc ggtaagggtg ccgtgggtctg cggatacggg 60  
gatgttggca agggttgtgc cgctgcactc aagcaggctg gtgcccgtgt cattgtgacc 120  
gagatcgacc ccactctgcgc cctccaggct ctgatggagg gtcttcagggt ccttcccttg 180  
gaggacgttg tctcgggaagc tgacatcttc gtgaccacca ctggcaacaa ggatatcatc 240  
atggttgacc acatgaggaa gatgaagaac aatgccattg tctgcaacat tg 292

<210> 1419  
<211> 287  
<212> DNA  
<213> Zea mays

<400> 1419

agaggctcta ccagatgcag gagaccggcg ccctcctctt ccctgccatt aacgtcaacg 60  
attccgtcac caagagcaag ttgacaacc tgtatggttg ccgccactca ctccctgatg 120  
gtctgatgag ggccaccgac gttatgatcg ccggttaagggt tgccgtgggtc tgcggatacg 180  
gtgatgttgg caaggggttg gccgtgcac tcaagcaggc tggtgcccgt gtcattgtga 240  
ccgagatcga ccccatctgc gccctccagg ctctgatgga gggctctt 287

<210> 1420  
<211> 304  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1420

gtgcnctcca ngctctgatg gagggctctt aggtccttcn cttggangac gttgtctctg 60  
aagctgacat cttcgtgacc accactggca acaangatat catcatgggt gaccacatga 120

ggaagatgaa gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata 180  
tgctcggcct tgagacctac cctggcgtca agcgcatcac catcaagccc cagactgacc 240  
gctgggtgtt ccccgagacc aacactggca tcatgtcttg ctganggtcg cctgatgaac 300  
cttg 304

<210> 1421  
<211> 283  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1421

ggagtactgg tgggtgcaccg agcgtgcct cgactggggc gaggcgggcg gccccgacct 60  
catcgtcgac gacggcggcg acgccacgct gctcatccac gaggggtgtca aggccgagga 120  
ggattacnag aagaccggca agatccccga cccggagtcc accgacaacg ctgagttcaa 180  
gatcgtgctc accatcatcc gcgacgggct caaggctgac cccaagaagt accgcaagat 240  
gaaggagagg cttgtcggcg tctctgagga gaccaccacg ggt 283

<210> 1422  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1422

ggatatgctc cgggcttgag acctaccctg gcgtcaagcg catnaccatc aagccccaga 60  
ctgaccgctg ggtgttcccc gagaccaaca ctggcatcat tgncccttgct gagggctcgcc 120  
tgatgaacct tgggtgtgct actggccatn ctagctttgt catgtcctgc tcattcacta 180  
accaggatcat tgcccaactt gaactgtgga aggagaagag ctctggcaag tatnanaaga 240  
angtgtatgt gctnccaag caccttgatn agaangntgn tgnctncac ttgggcaagc 300  
ttggtgccaa nctnaccaag cttaccaaag tcttaagncc gctacnttaa cctgcccntc 360  
gaaggntcct tccaacctnn ccacnaaccg gtcttagnaa gcnnnacaac ggttngaant 420

<210> 1423  
<211> 311  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1423

gaccggcgcc ctctcttcc ctgccattaa cgtcaacgat tccntcacca agancaagtt 60

tgacaacctg tatggttncn gccactcgct ccctgatggt ctgatgaggg ccaactgacgt 120

tatgatcgcc ggaaagggtg ccgtggtctg cngatacggg gatgtcggca aggnttggtgc 180

tgctgccctc aagcaggctg gtgcccgtgt cattgtgacc ganatcgacc ccatctnttc 240

cctccaggct ctgatggagg gtcttcagggt ccttccttg gaagacggtg tctctgaagc 300

tgacatcttc g 311

<210> 1424

<211> 283

<212> DNA

<213> Zea mays

<400> 1424

cgacgccacg ctgctcatcc acgagggtgt caaggccgag gaggagtacg agaagaccgg 60

caagatcccc gaccgggagt ccaccgacaa cgctgagttc aagatcgtgc tcaccatcat 120

ccgcgacggg ctcaaggctg accccaagaa gtaccgcaag atgaaggaga ggcttgctcg 180

cgtctctgag gagaccacca cgggtgtcaa gaggtcttac cagatgcagg agaccggcgc 240

cctcctcttc cctgccatta acgtcaacga ttccgtcacc aag 283

<210> 1425

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1425

aattccntca cnaaaagcaa gtttganaac ctgtatggtt gccgcnannc actccctgat 60

ggntgatna gggccaccga cgttatgatc gccggttaagg ttgccgtggn ctgcngatac 120

cgtgatgttg gcaanggttg tgccnctgca ctcaagcagg ctgntgcccg tgtcattgtg 180

accgagatcg annccatctg cgccctccac gctctgatgg atgggtcttc aagtccttcc 240

cttgaggagac gttgtctcgg gaagctgaca tcttcgtgac caccactggc aacaaggata 300

tcatcaatgg gttgancaca tgaaggaacg atgaaggaca atggcantgt ctgcaacatt 360  
 gggcaacnt 369

<210> 1426  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<400> 1426

gcaagatccc cgaccggag tccaccgaca acgctgagtt caagatcgtg ctcaccatca 60  
 tccgcgacgg gctcaaggct gacccaaga agtaccgcaa gatgaaggag aggcttgtcg 120  
 gcgtctctga ggagaccacc acgggtgtca agaggctcta ccagatgcag gagaccggcg 180  
 cctcctctt ccttgccatt aacgtcaacg attcogtcac caagagcaag ttgacaacc 240  
 tgtatggttg ccgccactcg ctccctgatg gtctgatg 278

<210> 1427  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<400> 1427

cttcgtgacc accactggca acaaggatat catcatggtt gaccacatga ggaagatgaa 60  
 gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct 120  
 tgagacctac cctggcgtca agcgcatcac catcaagccc cagactgacc gctgggtggt 180  
 ccccgagacc aacactggca tcattgtcct tgctgagggt cgctgatga accttgggtg 240  
 tgctactggc catcctagct ttgtcatgtc ctgct 275

<210> 1428  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<400> 1428

tgacatcttc gtgaccacca ctggcaacaa ggatatcatc atggttgacc acatgaggaa 60  
 gatgaagaac aatgccattg tctgcaacat tggccacttt gacaatgaaa ttgatatgct 120  
 cggccttgag acctaccctg gcgtcaagcg catcaccatc aagccccaga ctgaccgctg 180

ggtgttcccc gagaccaaca ctggcatcat tgtccttgct gagggtcgcc tgatgaacct 240  
 tgggtgtgct actggccatc ctagctttgt catgt 275

<210> 1429  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<400> 1429

caccatcaag cccagactg accgctgggt gttccccgag accaactctg gcatcattgt 60  
 ccttgctgag ggtcgcctga tgaaccttgg gtgtgctact ggccatccta gctttgtcat 120  
 gtcctgctca ttcactaacc aggtcattgc ccaacttgaa ctgtggaagg agaagagctc 180  
 tggcaagtat gagaagaagg tgtatgtgct cccaagcac cttgatgaga aggttgctgc 240  
 tctccacttg ggcaagcttg gtgccaagct gaccaagctc accaagtctc aggc 294

<210> 1430  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<400> 1430

gctgacatct tcgtgaccac cactggcaac aaggatatca tcatggttga ccacatgagg 60  
 aagatgaaga acaatgccat tgtctgcaac attggccact ttgacaatga aattgatatg 120  
 ctcggccttg agacctaccc tggcgtcaag cgcatcacca tcaagcccca gactgaccgc 180  
 tgggtgttcc ccgagaccaa cactggcatc attgtccttg ctgagggtcg cctgatgaac 240  
 cttgggtgtg ctactggcca tcctagcttt gtcatg 276

<210> 1431  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1431

ctcatggcgt gccgcgccga gttcggcccc tccaagccct tcgccggcgc taggatctcg 60  
 gggctctctc acatgaccat ccagaccgcc gtcctcatcg agaccctcac cgcgctcggc 120  
 gccgaggtcc gctggtgctc ctgcaacatc ttctccacgc aggaccacgc cgccgccgcc 180

atcgcgcgcg actcggccgc cgtgttcgcc tggnaagggg agacccttga ggagtactgg 240  
 tgggtgcaccg agcgcctgcct tgactggggc gangcggggc gccccgac 288

<210> 1432  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<400> 1432

tgcaggagac cggcgcctc ctcttccctg ccattaacgt caacgattcc gtcaccaaga 60  
 gcaagtttga caacctgtat ggttgccgcc actcgcctcc tgatgggtctg atgagggcca 120  
 ctgacgttat gatcgcggga aagggtgccg tgggtctgcg atacggtgat gtcggcaagg 180  
 gttgtgctgc tgccctcaag caggctggtg cccgtgtcat tgtgaccgag atcgacccca 240  
 tctgtgccct ccaggctctg atggagggtc ttcaggctct tccct 285

<210> 1433  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<400> 1433

atcgacccca tctgtgccct ccaggctctg atggagggtc ttcaggctct tcccttggag 60  
 gacgttgtct ctgaagctga catcttcgtg accaccactg gcaacaagga tatcatcatg 120  
 gttgaccaca tgaggaagat gaagaacaat gccattgtct gcaacattgg ccactttgac 180  
 aatgaaattg atatgctcgg ccttgagacc taccctggcg tcaagcgcat caccatcaag 240  
 cccagactg accgctgggt gttccccgag accaactg 280

<210> 1434  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1434

cgaccccatc tgcncctcc aggctctgat ggagggtctt caggctcttc ccttggagga 60  
 cgttgtctcg gaagctgaca tcttcgtgac caccactggc aacaaggata tcatcatggt 120



tgaccacatg aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa 180  
 tgaaattgat atgctcggcc ttgagaccta ccctggcgtc aagcgcatca ccatcaagcc 240  
 ccagactgac cgctgggtgt tccccgagac caacactggc atcatgtcct tgctgaaggt 300  
 cgctgatga acttgg 316

<210> 1435  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1435

gcccggcctc atggcgtgcc gcgccgagtt cggcccgctc aagcccntcg ccggcgctag 60  
 gatctcgggg tctctccaca tgaccatcca gaccgccgtc ctcatcgaga ccctcaccgc 120  
 gctcggcgcc gaggtccgct ggtgctcctg caacatcttc tccacgcagg accacgccgc 180  
 cgccgccatc gcgcgcgact cggccgcccgt gttcgcttgg aaagggggag accctcgagg 240  
 agtactggtg gtgcaccgag cgctgctcga ctggggcgaa gcgggcgggc cgacctca 298

<210> 1436  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1436

agaagaccgg caagatcccc gaccgggagt ccaccgacaa cgctgagttc aagatcgtgc 60  
 tcaccatcat ccgcgacggg ctcaaggctg accccaagaa gtaccgcaag atgaaggaga 120  
 ggcttgtcgg cgtctctgag gagaccacca cgggtgtcaa gaggtcttac cagatgcagg 180  
 agaccggcgc cctcctcttc cctgccatta acgtcaacga ttccgtcacc aagagcaagt 240  
 ttgacaactg tatggttgcc gcanttcgtt ccttgatggt ttgatgaggg ccactgang 299

<210> 1437  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<400> 1437

gtcaaggccg aggaggagta cgagaagacc ggcaagatcc ccgaccgga gtccaccgac 60  
aacgctgagt tcaagatcgt gtcaccatc atccgcgacg ggctcaaggc tgaccccaag 120  
aagtaccgca agatgaagga gaggcttgtc gggcgtctct gaggagacca ccacgggtgt 180  
caagaggctc taccagatgc aggagaccgg cgccctcctc ttccctgcca ttaacgtcaa 240  
cgattccgtc accaagagca agtttgacaa cctgtatgg 279

<210> 1438  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 1438

gcaagatccc cgaccggag tccaccgaca acgctgagtt caagatcgtg ctcaccatca 60  
tccgcgacgg gctcaaggct gacccaaga agtaccgcaa gatgaaggag aggcttgtcg 120  
gcgtctctga ggagaccacc acgggtgtca agaggctcta ccagatgcag gagaccggcg 180  
ccctcctctt ccctgccatt aacgtcaacg attccgtcac caagagcaag tttgacaact 240  
gtatggttgc cgccactcgc tccctgatgg tctgatg 277

<210> 1439  
<211> 318  
<212> DNA  
<213> Zea mays

<400> 1439

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ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg caggcggact 120  
tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg gcgtgccgcg 180  
ccgagttcgg cccgtccaag cccttcgccg gcgctaggat ctcggggtct ctccacatga 240  
ccatccagac cgccgtcctc atcgagacc tcaccgcgct cggcgccgag gtccgctggg 300  
gctcctgcaa catcttct 318

<210> 1440  
<211> 249  
<212> DNA  
<213> Zea mays

<400> 1440

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cgctggtgct cctgcaacat cttctccacg caggaccacg ccgccgccgc catcgcgcg 120  
gactcggccg ccgtgttcgc ctggaagggg gagaccctcg aggagtactg gtggtgcacc 180  
gagcgctgcc tcgactgggg cgaggcgggc ggccccgacc tcatcgtcga cgacggcggc 240  
gacgccacg 249

<210> 1441

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1441

cccagatcca attcgcgagt ncnccctcct ctgcggccat ggcgctctct gtggagaaga 60  
cctcgtctgg acgggagtag aaggtcaagg atctctcgca ggcggacttc ggccgcctcg 120  
agattgagct ggccgaggtc gaaatgcccc gcctcatggc gtgccgcgcc gagttcggcc 180  
cgtccaagcc cttcgcgggc gctaggatct cgggggtctct ccacatgacc atccagaccg 240  
ccgtcctcat cgagaccctn accgcgctcg gcgccgaggt ccgctggtgc tcctgcaaca 300  
tcttctcca 309

<210> 1442

<211> 276

<212> DNA

<213> Zea mays

<400> 1442

gtacgagaag accggaaga tccccgacct ggagtcacc gacaacgctg agttcaagat 60  
cgtgctcacc atcatccgcg acgggctcaa ggctgacccc aagaagtacc gcaagatgaa 120  
ggagaggctt gtcggcgtct ctgaggagac caccacgggt gtcaagaggc tctaccagat 180  
gcaggagacc ggcgccctcc tcttccctgc cattaacgtc aacgattccg tcaccaagag 240  
caagtttgac aacctgtatg gttgccgcca ctact 276

<210> 1443

<211> 276

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1443  
 gtgaccgana tcgaccccat ctgtncctc caggctctga tggagggctc tcaggctcctt 60  
 cccttgaggg acgttgtctc tgaagctgac atnttcgtga ccaccactgg caacaaggat 120  
 atcatcatgg ttgaccacat gaggaagatg aagaacaatg ccattgtctg caacattggc 180  
 cactntgaca atgaaattga tatgctcggc cttgagacct accctggcgt caagcgcac 240  
 accatcaagc cccagactga ccgctgggtg ttcccc 276

<210> 1444  
 <211> 270  
 <212> DNA  
 <213> Zea mays  
 <400> 1444  
 agaagaccgg caagatcccc gaccgggagt ccaccgacaa cgctgagttc aagatcgtgc 60  
 tcaccatcat ccgcgacggg ctcaaggctg accccaagaa gtaccgcaag atgaaggaga 120  
 ggcttgctcg cgtctctgag gagaccacca cgggtgtcaa gaggtctac cagatgcagg 180  
 agaccggcgc cctcctcttc cctgccatta acgtcaacga ttccgtcacc aagagcaagt 240  
 ttgacaacct gtatggttgc cgccactcgc 270

<210> 1445  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
 <400> 1445  
 ggaggacgtt gtctctgaag ctgacatctt cgtgaccacc actggcaaca aggatatcat 60  
 catggttgac cacatgagga agatgaagaa caatgccatt gtctgcaaca ttggccactt 120  
 tgacaatgaa attgatatgc tcggccttga gacctacct ggcgtcaagc gcatcaccat 180  
 caagccccag actgaccgct ggggtgtccc cgagaccaac actggcatca ttgtccttgc 240  
 tgagggtcgc ctgatgaacc t 261

<210> 1446

<211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1446  
  
 tntgacaacc tgtatggttg ccgccactcg ctccctgatg gtctgatgag ggccactgac 60  
 gttatgatcg ccggaaggt tgccgtggtc annccgatac ggtgatgtcg gcaagggttg 120  
 tgctgctgcc ctcaagcagg ctgggtgccc tgtcattgtg accgagatcg accccatctg 180  
 tgccctccag gctctgatgg agggctcttca ggctccttccc ttggaggacg ttgtctctga 240  
 agctgacatc ttcgtgacca ccactggcaa caaggatatc atcatgggtg a 291

<210> 1447  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1447  
  
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 tcatccacga ggggtgtcaag gccgaggagg agtacgagaa gaccggcaag atccccgacc 120  
 cggagtccac cgacaacgct gagttcaaga tcgtgctcac catcatccgc gacggggtca 180  
 aggctgaccc caagaagtac cgcaagatga aggagagctt gtcggcgctc taaggagacc 240  
 accaggggtg caagaagctc taccagatgc aagaaaccgg cgccctcctc ttccctgcc 300  
 ttaacgtnac gatccg 316

<210> 1448  
 <211> 273  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1448  
  
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 gccgaggagg agtacgagaa gaccggcaag atccccgacc cggagtccac cgacaacgct 120  
 gagttcaaga tcgtgctcac catcatccgc gacggggtca aggctgaccc caagaagtac 180  
 cgcaagatga aggagaggct tgtcggcgctc tctgaggaga ccaccacggg tgncaagag 240

gctctaccag atgcaggaga ccggcgccct cct

273

<210> 1449

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1449

cngacgctgg gtggctcctg caacatcttc tccacgcagg accacgccgc cgccgccatc 60

gcgcgcgaca cgcccgccgt gttcgcctgg aagggggaga ccctcgagga gtactggtgg 120

tgcaccgagc gctgcctcga ctggggcgag gcgggcggcc ccgacctcat cgtcgacgac 180

ggcggcgacg ccacgctgct catccacgag ggtgtcaagg ccgaggagga ttacgagaag 240

accggcaaga tccccgaccc ggagtccacc g 271

<210> 1450

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1450

aacgattccg tcaccaagag caagtttgac aacctgtatg gttgccgcca ctgctccct 60

gatggtctga tgagggccac tgacgttatg atcgccggaa aggttgccgt ggtctgcgga 120

tacggtgatg tcggcaaggg ttgtgctgct gccctcaagc aggctggtgc ccgtgtcatt 180

gtgaccgaga tcgaccccat ctgtgccctc caggctctga tggagggtn caaggtcctn 240

cccttgaggg acgttgtctc ngaagatgac atctt 275

<210> 1451

<211> 271

<212> DNA

<213> Zea mays

<400> 1451

gagatcgacc ccattctgcgc cctccaggct ctgatggagg gtcttcaggt ccttcccttg 60

gaggacgttg tctcggaagc tgacatcttc gtgaccacca ctggcaacaa ggatatcatc 120

atggttgacc acatgaggaa gatgaagaac aatgccattg tctgcaacat tggccacttt 180

gacaatgaaa ttgatatgct cggccttgag acctaccctg gcgtcaagcg catcaccatc 240  
aagccccaga ctgaccgctg ggtgttcccc g 271

<210> 1452  
<211> 277  
<212> DNA  
<213> Zea mays

<400> 1452  
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ctcactccct gatggctctga tgagggccac cgacgttatg atcgccggta aggttgccgt 120  
ggtctgcgga tacgggtgatg ttggcaaggg ttgtgccgt gcactcaagc aggctgggtgc 180  
ccgtgtcatt gtgaccgaga tcgaccccat ctgcgccctc caggtctctga tggaggggtct 240  
tcaggtcctt cccttgaggg acgttgtctc ggaactg 277

<210> 1453  
<211> 273  
<212> DNA  
<213> Zea mays

<400> 1453  
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gaccaacact ggcatcattg tccttgctga gggtcgcctg atgaaccttg ggtgtgctac 120  
tggccatcct agctttgtca tgtcctgctc attcactaac caggtcattg cccaacttga 180  
actgtggaag gagaagagct ctggcaagta tgagaagaag gtgtatgtgc tccccaaagca 240  
ccttgatgag aagggttgctg ctctccactt ggg 273

<210> 1454  
<211> 299  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1454

ggaggggtctt caggtccttc ccttgaggga cgttgtctct gaagctgaca tcttcgtgac 60  
caccactggc aacaaggata tcatcatggt tgaccacatg aggaagatga agaacaatgc 120

natgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct tgagacctac 180  
 cctggcgtca agcgcatcac catcaagccc cagactgacc gctgggtgtt ccccgagacc 240  
 aacactggca tcattgtcct tgctgagggg cgctgatgaa cttgggtgtg tatggccac 299

<210> 1455  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1455

ccgcccactcg ctccctgatg gtctgatgag ggccactgac gttatgatcg ccggaaaggt 60  
 tgccgtgggtc tgccgatacg gtgatgtcnn gcaagggttg tgctgctgcc ctcaagcagg 120  
 ctgggtgcccg tgtcattgtg accgagatcg accccatctg tgccctccag gctctgatgg 180  
 aggggtcttca ggtccttccc ttggaggacg ttgtctctga agctgacatc ttctgacca 240  
 ccactggcaa caaggatatc atcatggttg accacatgag ga 282

<210> 1456  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1456

ggctgacccc aagaagtacc gcaagatgaa ggagaggctt gtcggcgtct ctgaggagac 60  
 caccacgggt gtcaagaggc tctaccagat gcaggagacc ggcgccctcc tcttccctgc 120  
 cattaacgtc aacgattccg tcaccaagag caagtttgac aacctgtatg gttgccgcca 180  
 ctcgtccct gatggtctga tganggccac tgacgttatg attcgccgga aaggttgccg 240  
 tggctctgcg atacggtgat gtcggcaang gttgtgtgct gccctcaagc angctgg 297

<210> 1457  
 <211> 130  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1457

gngatcgacc ccactctgcg cctccagnct ctnatggagg gtcttcagggt ccttcccttg 60



naggacgttg tctcggaagc tgacatcttc ggtgaccacc actggcaaca aggatatcan 120  
ncatgggttg 130

<210> 1458  
<211> 304  
<212> DNA  
<213> Zea mays

<400> 1458

catctcccag atccaattcg cgagttctcc ctctctgcg gccatggcg tctctgtgga 60  
gaagacctcg tctggacggg agtacaaggc caaggatctc tcgcaggcgg acttcggccg 120  
cctcgagatt gagctggccg aggtcgaaat gcccggcctc atggcggtgcc gcgccgagtt 180  
cggcccgtcc aagcccttcg ccggcgctag gatctcgggg tctctccaca tgaccatcca 240  
gaccgccgtc ctcatcgaga cctcaccgc gctcggcgcc gaggtccgct ggtgctcctg 300  
caac 304

<210> 1459  
<211> 512  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1459

gnggnnnnng agtgnntnnt aatttggagg naaaatgtaa nggnaatctt cgtaccggtc 60  
cggaannntc gaccacgcg tccgcccacg cgtccggacc aacactggca tcattgtcct 120  
tgctgagggt cgnetgatga ncctggggtg tgctactggc catcctagct ttgncatgct 180  
ctgctcattc actaaccagg tcattgccc acttgaaactg tggaaggaga agagctctgg 240  
caagtatgaa aagaagggtg atgtntctcc caagcacctt gatgagaagg ttgctgctct 300  
ccacttgggc aancttggtg ccaagctgac caagctnacc aagtctcagg ccgactacat 360  
cagcgtgccg atcgagggtc cctacaagcc tgccactacc ggtactaggc agccagcaca 420  
cggnttgcaa ctnactcggg ccgtgtgtgc tatnaagccg ctactggcc tgnagntatc 480  
tnnngnannc tatggcataa acatanacgg ga 512

<210> 1460

<211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1460  
  
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 aanggggaga cccttgagga gtactggtgg tgnaccgagc gctgccttga ctggggcgag 120  
 gcgggcggcc ccgacctcat cgtcgacgac ggcggcgacg ccacgctgct catccacgag 180  
 ggtgtcaagg ccgaggagga gtacgagaag accggcaaga tccccgaccc ggagtccacc 240  
 gacaacgctg agttcaagat cgt 263

<210> 1461  
 <211> 247  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1461  
  
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 ccgagggtccg ctggtgctcc tgcaacatct tctccacgca ggaccacgcc gccgccgcca 120  
 tcgcgcgcga ctcgccgcc gtgttcgcct ggaaggggga gaccttgag gagtactggt 180  
 ggtgcaccga gcgctgcctt gactggggcg aggcggggcg ccccgacctc atcgtcgacg 240  
 acggcgg 247

<210> 1462  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1462  
  
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 tgctcggcct tgagacctac cctggcgta agcgcatcac catcaagccc cagactgacc 120  
 gctgggtgtt ccccgagacc aacactggca tcattgtcct tgctgagggt cgctgatga 180  
 accttggggtg tgctactggc catcctagct ttgtcatgtc ctgctcattc actaaccagg 240  
 tcattgcca acttgaactg 260

<210> 1463  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1463  
  
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 caagggttgt gccgctgcac tcaagcaggc tgggtgcccg gtcatgtga ccgagatcga 120  
 ccccatctgc gccctccagg ctctgatgga ggggtcttcag gtccttccct tggaggacgt 180  
 tgtctcggaa gctgacatct tcgtgaccac cactggcaac aaggatatca tcanggttga 240  
 ccacatgagg aagatganga acaatgccat tg 272

<210> 1464  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1464  
  
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 caatgaaatt gatatgctcg gccttgagac ctaccctggc gtcaagcgca tcaccatcaa 120  
 gcccagact gaccgctggg tgttccccga gaccaacact ggcattcattg tccttgctga 180  
 gggtcgcctg atgaaccttg ggtgtgctac tggccatcct agctttgtca tgcctgtctc 240  
 attcactaac cag 253

<210> 1465  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1465  
  
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 tccccgaccc ggagtccacc gacaacgctg agttcaagat cgtgctcacc atcatccgcg 120  
 acgggctcaa ggctgacccc aagaagtacc gcaagatgaa ggagaggctt gtcggcgtct 180  
 ctgaggagac caccacgggt gtcaagaggc tctaccagat gcaggagacc ggcgccctcc 240  
 tcttccctgc cattaacgtc a 261

<210> 1466  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<400> 1466

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 ccatcgcgcg cgactcggcc gccgtgttcg cctggaaggg gagacccttg aggagtactg 180  
 gtgggtgcacc gagcgctgcc ttgactgggg cgaggcgggc ggccccgacc tcatcgtega 240  
 cgacggcggc gacgcacgct g 261

<210> 1467  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<400> 1467

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 atggcgctct ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg 120  
 caggcgggact tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg 180  
 gcgtgccgcg ccgagttcgg cccgtccaag cccttcgccg ccgctaggat ctcggggtct 240  
 ctccacatga ccatccagac cgccgtcctc atcgagaccc tcaccgcgct cggcgccgag 300  
 gtccgcaggt gtcctgcaa cat 323

<210> 1468  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1468

gctcggcctt gnagacctac cctggcgta agcgcatcac catcaagccc cagactgacc 60  
 gctgggtgtt ccccgagacc aacctggca tcattgtcct tgctgagggt cgctgatga 120  
 acctgggtg tgctactggc catcctagct ttgtcatgtc ctgctcattc actaaccagg 180  
 tcattgcca acttgaactg tggaaggaga agagctctgg caagtatgag aagaagggtg 240

atgtgctccc caagcacctt gatgagaagg ttgctgc 277

<210> 1469  
<211> 257  
<212> DNA  
<213> Zea mays

<400> 1469

caaggatata atcatggttg accacatgag gaagatgaag aacaatgcca ttgtctgcaa 60  
cattggccac tttgaacaat gaaattgata tgctcggcct tgagacctac cctggcgta 120  
agcgcatac catcaagccc cagactgacc gctgggtgtt ccccgagacc aacactggca 180  
tcattgtcct tgctgagggt cgctgatga accttgggtg tgctactggc catcctagct 240  
ttgtcatgtc ctgctca 257

<210> 1470  
<211> 262  
<212> DNA  
<213> Zea mays

<400> 1470

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ggcgccctcc tcttccctgg ccattaacgt caacgattcc gtcaccaaga gcaagtttga 120  
caacctgtat ggttgccgcc actcgtccc tgatggtctg atgagggcca ctgacgttat 180  
gatcgccgga aagggtgccg tggctctgcg atacggtgat gtcggcaagg gttgtgctgc 240  
tgcaactcaag caggctggtg cc 262

<210> 1471  
<211> 317  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1471

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ggtaagggtg ccgtggtctg cggatacggg gatgttgga agggttgtgc cgctgactc 120  
aagcaggctg gtgcccgtgt cattgtgacc gagatcgacc ccatctgcnc cctccaggct 180

ctgatggagg gtcttcaggt ccttcccttg gaggnntngt cacggaagct nanatttcgt 240  
gaccaccact ggnaacaagg atatcatcat gggtgaccac atgaggaaga tgaanaacat 300  
gccattgtct cnaattg 317

<210> 1472  
<211> 268  
<212> DNA  
<213> Zea mays

<400> 1472  
cgactggggc gaggcgggcg gccccgacct catcgctgac gacggcggcg acgccaacgc 60  
tgctcatcca cgaggggtgc aaggccgagg aggattacga gaagaccggc aagatccccg 120  
acccggagtc caccgacaac gctgagttca agatcggtgt caccatcatc cgcgacgggc 180  
tcaaggctga cccaagaag taccgcaaga tgaaggagag gcttgctggc gtctctgagg 240  
agaccaccac ggggtgtcaag aggctcta 268

<210> 1473  
<211> 274  
<212> DNA  
<213> Zea mays

<400> 1473  
ggcaagggtt gtgctgctgc cctcaagcag gctgggtgcc gtgtcattgt gaccgagatc 60  
gaccccatct gtgccctcca ggctctgatg gaggggtctt aggtccttcc cttggaggac 120  
gttgtctctg aagctgacat ctctgtgacc accactggca acaaggatat catcatggtt 180  
gaccacatga ggaagatgaa gaacaatgcc attgtctgca acattggcca tttgacaatg 240  
aaattgatat gctcggcctt gagacctacc ctgg 274

<210> 1474  
<211> 290  
<212> DNA  
<213> Zea mays

<400> 1474  
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tctgtgccct ccaggctctg atggaggggtc ttcaggctct tcccttgag gacgttgtct 120

ctgaagctga catcttcgtg accaccactg gcaacaagga tatcatcatg gttgaccaca 180  
 tgaggaagat gaagaacaat gccattgtct gcaacattgg ccactttgac aatgaaattg 240  
 atatgctcgg ccttgagact acctggcgtc aagcgcacat catcaagccc 290

<210> 1475  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1475

cgagggtgtc aaggccgagg aggagtacga gaagaccggc aagatccccg acccgagtc 60  
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 cccaagaag taccgcaaga tgaaggagag gcttgtcggc gtctctgagg agaccaccac 180  
 ggggtgtcaag aggctctacc agatgcagga gaccggcgcc ctctcttcc ctgccattaa 240  
 cgtcaacgat tcgtcaccag agcaagtttg acnactgtat ggttgccgca attcattccc 300

<210> 1476  
 <211> 260  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1476

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 ccactggcaa caaggatatc atcatggttg accacatgag gaagatgaag aacaatgcca 120  
 ttgtctgcaa cattggccac ttgacaatg aaattgatat gctcggcctt gagacctacc 180  
 ctggcgtcaa gcgcacacc atcaagcccc agactgaccg ctgggtgttc cccgagacca 240  
 aactggcat cattgtcctt 260

<210> 1477  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1477

attachagaa gaccggcaag anccccgacc cggagtccac cgacaacgct gagttcaaga 60

tcgtgctcac catcatccgc nacgggctca aggctgaccc caagaagtac cgcaaganga 120  
aggacgaggc ttgtcggcgt ctctgaggag accaccacgg gtgtcaagag gctctaccag 180  
atgcaggaga ccggcgccct cctcttcct gccattaacg tcaangattc cgtcaccaag 240  
agcaagtttg acaacntgta tggttgccgc caactcggct ccctgatggg ctgat 295

<210> 1478  
<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1478

gncgcngccg ccatcgcgcg cgactcggcc gccgtgttcg cctggaaggg ggagaccctt 60  
gaggagtact ggtggtgcac cgagcgtgc cttgactggg gcgaggcggg cggccccgac 120  
ctcatcgtcg acgacggcgg cgacgccaac gctgctcatc cacgaggggtg tcaaggccga 180  
ggaggagtac gagaagaccg gcaagatccc cgaccgggag tccaaccgac aacgntgagt 240  
tcaagatcgt gcttaccatc attcgggacn ggctcaaa 278

<210> 1479  
<211> 287  
<212> DNA  
<213> Zea mays

<400> 1479

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tgctcattca ctaaccaggc cattgcccac cttgaactgt ggaaggagaa gagctctggc 120  
aagtatgaga agaagggtga tgtgctcccc aagcaccttg atgagaagggt tgctgctctc 180  
cacttgggca agcttgggtgc caagctgacc aagctcacca agtctcaggc cgactacatc 240  
agcgtgccga tcgaggggtcc ctacaagcct gccactacc ggtacta 287

<210> 1480  
<211> 306  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1480



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aatgagggcc actgacgtta tgatcgccgg aaaggttgcc gtggtctgcg gatacgggtga 120  
tntcggcaan ggttgtgctg ctgccctcaa gcaggctggt gcccggtgca ttgtgaccga 180  
gatcgacccc atctgtgccc tccaggctct gatggagggt cttcagggtcc ttcccttgga 240  
ggacgttgtc tctgaagctg acatcttcgt gaccaccact ggcaacaagg atatcacatg 300  
gttgac 306

<210> 1481

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1481

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tgatatgctc ggccttgaga cctaccctgg cgtcaagcgc atcaccatca agccccagac 180  
tgaccgctgg gtgttccccg agaccaacac tggcatcatt gtccttgctg anggtcgcct 240  
gatgaacttg ggtgtgtatg gccatcctag tttgtcatgt cctgtcatna ctaaccagtc 300  
attgnccaat tgaa 314

<210> 1482

<211> 270

<212> DNA

<213> Zea mays

<400> 1482

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cctaccctgg cgtcaagcgc atcaccatac aagccccaga ctgaccgctg ggtgttcccc 120  
gagaccaaca ctggcatcat tgtccttgct gagggtcgcc tgatgaacct tgggtgtgct 180  
actggccatc ctagctttgt catgtcctgc tcattcacta accagggtcat tgcccaactt 240  
gaactgtgga aggagaagag ctctggcaag 270

<210> 1483

<211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1483  
  
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 catctgcnnn ctccangctc tgatggaggg tcttcaggtc ctcccttgg aggacgttgt 180  
 ctcggaagct gacatcttcg tgaccaccac tggcaacaag gatatcatca tggttgacca 240  
 catgaggaag atgaagaaca atgcca 266

<210> 1484  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1484  
  
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 ggcggacttc ggccgcctcg agattgagct ggccgaggtc gaaatgcccg gcctcatggc 180  
 gtgccgcgnc gaggtcggcc cgtccaagcc ctctgcgggc gctaggatct cgggggtctct 240  
 ccacatgacc atccagaccg ccgtcctcat cgagaccctc accgcgctcg gcgccgaggt 300  
 ccgctggtgc tc 312

<210> 1485  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1485  
  
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 tcattcacta accaggatcat tgcccaactt gaactgtgga aggagaagag ctctggcaag 180  
 tatgaaagaa ggtgtatgtg ctccccaagc accttgatga gaagggtgct gctctccact 240

tgggcaagct tggtgccaag ctgaccaagc t 271

<210> 1486  
<211> 275  
<212> DNA  
<213> Zea mays

<400> 1486

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ccggagtcca ccgacaacgc tgagttcaag atcgtgctca ccatcatccg cgacgggctc 180  
aaggctgacc ccaagaagta ccgcaagatg aaggagaggc ttgtcggcgt ctctgaggag 240  
accaccacgg gtgtcaagag gtctaccaga tgcag 275

<210> 1487  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1487

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ctctggcaag tatgagaaga aggtgtatgt gctccccaag caccttgatg agaaggttgc 180  
tgctctccac ttgggcaagc ttggtgccaa gctgaccaag ctcaccaagt ctcaggccga 240  
ctacatcagc gtgccgatcg aggggtcccta caagcctgcc cactaccggt actaggcaca 300  
cggcttgag ctnactcggg ccgttgtgtg ctatgaagtt cgctacactg gcctgtcaat 360  
tatcttttgc atgcatatgc attatcatat acccaagtcg cgtacag 407

<210> 1488  
<211> 300  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1488

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gacctncgtc tggacgggag tacaagggtca aggatctctc gcaggcggac ttcggccgcc 120  
 tcgagattga gctggccgag gtcgaaatgc ccggcctcat ggcgtgccgc gccgagttcg 180  
 gcccggtccaa gcccttcgcc ggcgctagga tctcggggtc tctccacatg accatccaga 240  
 ccgccgtcct catcgagacc ctacccgcgc tcggcgccga ggtccgctgg tgctcctgca 300

<210> 1489  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1489

ccgctgcact caagcaggct ggtgcccggtg tcattgtgac cgagatcgac cccatctncg 60  
 ccctccaggc tctgatggag ggtcttcagg tccttccctt ggaggacgtt gtctcggaag 120  
 ctgacatctt cgtgaccacc actggcaaca aggatatcat catggttgac cacatgagga 180  
 agatgaagaa caatgccatt gtctgcaaca ttggccactt tgacaatgaa attgatatgc 240  
 tcggccttga gacctaccc 259

<210> 1490  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1490

gagggccacc gacgttatga tcgccggtaa ggttgccgng gtctgcgnt acggtgatgt 60  
 tggcaagggt tgtgccgctg cactacaagc aggctgggtc ccgtgtcatt gtgaccgagn 120  
 atcgacccca tctgcgccct ccaggctctg atggagggtc ttcaggctcct tcccttgag 180  
 gacgttgtct cggaagctga catcttcgtg accaccaactg gcaacaagga tatcatcatg 240  
 gttgaccaca tgaggaagat gaagaacaat gccatgtctg caacntggcc atttgacang 300  
 aat 303

<210> 1491  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223>        unsure at all n locations  
 <400>        1491

gtcgacgacg gcggcgacgc caacgctgct catccacgag ggtgtcaagg ccgaggagga    60  
 gtacgagaag accggcaaga tccccgaccc ggagtccacc gacaacgctg agttcaagat   120  
 cgtgctcacc atcatccgcg acgggctcaa ggctgacccc aagaagtacc gcaagatgaa   180  
 ggagangctt gtcggcgtct ttgaggagac caccangggg gtcaagaggt ctaccagatg   240  
 caggagaccg gcgccctcct cttccctg    268

<210>        1492  
 <211>        278  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        1492

gttctagatc gcgagctaga actagcacca cgggtgtcaa gaggctctac cagatgcagg    60  
 agaccggcgc cctcctcttc cctgncatta acgtcaacga ttccgtcacc aagagcaagt   120  
 ttgacaacct gtatggttgc cgccactcgc tccctgatgg tctgatgagg gccactgacg   180  
 ttatgatcgc cggaaggtt gccgtggtct gcggatacgg tgatgtcggc aagggttggtg   240  
 ctgctgccct caagcaggct ggtgccgtgt catgtgac                                   278

<210>        1493  
 <211>        282  
 <212>        DNA  
 <213>        Zea mays

<223>        unsure at all n locations  
 <400>        1493

gctcgnnctt gannnctacc cnggngtcaa gngcatennc atcangcccc agactgancg    60  
 ctgggnnttc ccenaccca aactggcat cantgtcctt gctganggtc gcctgatgaa   120  
 ccttnggtgt gcnactggcc atcctagctt tgtcangtnc tgctcattca ctaaccagggt   180  
 cattgccccaa cttgaactgt ggaaggagaa gagctctggc aagtatgaga agaaggtgta   240  
 tgtgtcccc aagcaccttg atgagaaggt tgctganctc ca                                282

<210>        1494  
 <211>        305

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1494  
  
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 tcgcaggcgg acttcggccg cctcgagatt gagctggccg aggtcgaaat gcccggcctc 120  
 atggcgtgcc gcgccgagtt cggcccgtcc aagcccttcg ccggcgctag gatctcgggg 180  
 tctctccaca tgaccatcca gaccgccgtc ctcatcgaga ccctcaccgc gctcggcgcc 240  
 gaggtccgtg gtgtcctgca acattttctcc acnaggacca gccgcgcgca tgcgcggaan 300  
 ggcgc 305

<210> 1495  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1495  
  
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 cctcgtctgg acgggagtac aagggtcaagg atctctcgca ggccggacttc ggccgcctcg 120  
 agattgagct ggccgaggtc gaaatgcccc gcctcatggc gtgccgcgcc gagttcggcc 180  
 cgtccaagcc cttcgccggc gctaggatct cggggtctct ccacatgacc atccagaccg 240  
 ccgtcctcat cgagaccctc accgcgctcg gcgccgaggt ccgt 284

<210> 1496  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1496  
  
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 gcaggagacc ggccgccctcc ttttccctgc cattaacgtc aacgattccg tcaccaagag 120  
 caagtttgac aacctgtatg gttgccgcca ctgcgtccct gatggtctga tgagggccac 180  
 tgacgttatg atcgccggaa aggttgccgt ggtctgcgga taccgtgatg tcggcaaagg 240  
 gttgtgctgc tgccctcaag cag 263

<210> 1497  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1497

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 ctgccgccat ggcgctctct gtggagaaga cctcgtcttg acgggagtag aagggtcaagg 120  
 atctctcgca ggcggacttc ggccgcctcg agattgagct ggccgagggtc gaaatgcccg 180  
 gcctcatggc gtgccgcgcc gagttcggcc cgtccaagcc cttcgccggc gctaggatct 240  
 cgggggtctct ccacatgacc atccagaccg ccgtcctcat cgagaccctc accgcgctcg 300  
 gcgccgaagt ccgtggtgtc tgcaacatct tctccacgan gaccacg 347

<210> 1498  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1498

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 gctcattcac nnaccagggtc attgcccac ttgaactgtg gaaggagaag agctctggca 120  
 agtatgagaa gaagggtgat gtgctcccca agcaccttga tgagaagggt gctgctctcc 180  
 acttgggcaa gcttgggtgcc aagctgacca agctcaccaa gtctcaggcc gactacatca 240  
 gcgtgccgat cgaggggtccc tacaagcctg cccat 275

<210> 1499  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1499

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 gcgctctctg tggagaagac ctcgtctgga cgggagtaca aggtcaagga tctctcgcan 120  
 gcggacttcg gccgcctcga gattgagctg gccgagggtc aaatgcccg cctcatggcg 180

tgccgcgcgcg agttcggccc gtccaagccc ttccgcggcg ctaggatctc ggggtctctc 240  
cacatgacca tccagaccgc cgtcctcatc gagaccctca ccgcgctcgg cgccgatgtc 300  
cgctgg 306

<210> 1500  
<211> 280  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1500

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cacatgagga agatgaagaa caatgccatt gtctgcaaca ttggccactt tgacaatgaa 120  
attgatatgc tcggccttga gacctacctt ggcgtcaagc gcatcaccat caagncccag 180  
actgaccgct ggggtgtccc cgagaccaac actggcatca ttgtccttgt tgagggtcgc 240  
tgatgaactt nggggtgcaa ttggccatcc caactttggc 280

<210> 1501  
<211> 293  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1501

cgagnacgcg tgggttcccc gagaccaaca ctggcatcat tgtccttgct gagggtcgcc 60  
tgatgaacct tgggtgtgct aatntgccat cctaagcttg tcatgtcctg ctcatcact 120  
aaccagggtca ttgcccact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 180  
aagggtgatg tgctcccaa gcaccttgat gagaagggtg ctgctctcca cttgggcaag 240  
cttggtgcca agctgaccaa gctcaccaag tctcaggccg actacatcag cgt 293

<210> 1502  
<211> 307  
<212> DNA  
<213> Zea mays

<400> 1502

cggacctggc gttccatttc cccatctccc agatccaatt cgcgagttct cctcctctg 60



ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120  
tctcgcaggc ggacttcggc cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180  
tcatggcgtg ccgcgcgag ttcggccgt ccaagccctt cgccggcgct aggatctcgg 240  
ggctctctcca catgaccatc cagaccgccg tctcatcga gacctcacc gcgctcggcg 300  
ccgaggt 307

<210> 1503  
<211> 232  
<212> DNA  
<213> Zea mays

<400> 1503  
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acaatgccat tgtctgcaac attggccact ttgacaatga aattgatatg ctcggccttg 120  
agacctaccc tggcgtcaag cgcatacca tcaagcccca gactgaccgc tgggtgttcc 180  
ccgagaccaa cactggcatc attgtccttg ctgagggtcg cctgatgaac ct 232

<210> 1504  
<211> 277  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1504

tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg gcgtgccgcg 60  
ccgagttcgg cccgtccaag nccttcgccg gcgctaggat ctcggggtct ctccacatga 120  
ccatccagac cgccgtcctc atcgagaccc tcaccgcgct cggcgccgag gtccgctggt 180  
gtccttgcaa natcttctcc acgcaggacc acgctgccgc ngccatcgcg agcaantcgg 240  
ccgngtntt cgcttaaang gggaaaccct cngnrat 277

<210> 1505  
<211> 234  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1505

gttgtctctg aagctgacat ctctgtgacc accactggca acaaggatat catcatgggt 60  
gaccacatga ggaanatgaa gaacaatgcc attgtctgca acattggcca ctttgacaat 120  
gaaattgata tgctcggcct tgagacctac cctggcgtca agcgcatcac catcaagccc 180  
cagactgacc gctgggtggt ccccgagacc aacactggca tcattgtcct tgct 234

<210> 1506  
<211> 238  
<212> DNA  
<213> Zea mays

<400> 1506

tgaaggagag gcttgtcggc gtctctgagg agaccaccac ggggtgtcaag aggctctacc 60  
agatgcagga gaccggcgcc ctctcttcc ctgccattaa cgtcaacgat tccgtcacca 120  
agagcaagtt tgacaacctg tatggttgcc gccactcact ccctgatggt ctgatgaggg 180  
ccaccgacgt tatgatcgcc ggtaaggttg ccgtggtctg cggatacggg gatgtttg 238

<210> 1507  
<211> 281  
<212> DNA  
<213> Zea mays

<400> 1507

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ccacgagggg gtcaaggccg aggaggatta cgagaagacc ggcaagatcc ccgacccgga 120  
gtccaccgac aacgctgagt tcaagatcgt gtcaccatc atccgcgacg ggctcaaggc 180  
tgacccaag aagtaccgca agatgaagga gaggcttctg ggcgtctctg aggagaccac 240  
cacgggtgtc aagaggctct accagatgca ggagaccggc g 281

<210> 1508  
<211> 235  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1508

gaagaacaat gccattgtct gcaacattgg ccactttgac aatgaaattg atatgctcgg 60

ccttgagacc taccctggcg tcaagcgcat caccatcaag cccagactg accgctgggt 120  
gttccccgag accaacactg gcatcattgt ccttgetgag ggctgcctga tgaaccttg 180  
gtgtgctact ggccatccta gctttgtcat gtctgtctca ttcactaacc aggnc 235

<210> 1509

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1509

agatccaatt cgcgagttct ccctcctctg ccgccatggc gctctctgtg gagaagacct 60  
cgtctggacg ggagtacaag gtcaaggatc tctcgcaggc ggacttcggc cgcctcgaga 120  
ttgagctggc cgaggctgaa atgcccggcc tcatggcgtg ccgcgccgag ttcggcccgt 180  
ccaagccctt cgccggcgct aggatctcgg ggtctctcca catgaccatc cagaccgccg 240  
tcctcatcga gaccctcacc gcgctcggcg ccgangtccg tgggtgcctg caacatttc 299

<210> 1510

<211> 280

<212> DNA

<213> Zea mays

<400> 1510

gaagatgaag aacaatgcca ttgtctgcaa cattggccac tttgacaatg aaattgatat 60  
gctcggcctt gagacctacc ctggcgctcaa gcgcatcacc atcaagcccc agactgaccg 120  
ctgggtgttc cccgagacca aactggcat cattgtcctt gctgagggtc gcctgatgaa 180  
ccttgggtgt gctactggcc atcctagctt tgtcatgtcc tgctcatcac taaccaggtc 240  
atgcccaact tgaactgtgg aaggagaaga gctctggcaa 280

<210> 1511

<211> 298

<212> DNA

<213> Zea mays

<400> 1511

ctcgttccat ttccccatct cccagatcca attcgcgagt tctccctcct ctgcggccat 60  
ggcgtctctt gtggagaaga cctcgtctgg acgggagtac aaggtaagg atctctcgca 120

ggcggacttc ggccgcctcg agattgagct ggccgaggtc gaaatgcccg gcctcatggc 180  
 gtgccgcgcc gagttcggcc cgtccaagcc cttcgccggc gctaggatct cggggctctt 240  
 ccacatgacc atccagaccg ccgtcctcat cgagaccctc accgcgctcg gcgccgag 298

<210> 1512  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1512

gaccacatga ggaagatgaa gaacaatgcc attgtctgca acattggcca ctttgacaat 60  
 gaaattgata tgctcggcct tgagacctac cctggcgta agcgcatcac catcaagccc 120  
 nagactgacc gctgggtgtt ccccgagacc aacctggca tcattgtcct tgctgagggt 180  
 cgcctgatga accttgggtg tgctactggc catcctagct tggncatgtc cnngctaann 240  
 antaacnagg 250

<210> 1513  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1513

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 ggggcgaggc gggcggcccc gacctcatcg tcgacgacgg cggcgacgcc acgtgtctca 120  
 tccacgaggg tgtcaaggcc gaggaggatt acgagaagac cgncangatc cccgacccgg 180  
 agtccaccga caacgctgag ttcaagatcg tgctcaccat catccgcgac gggtcaagg 240  
 ctgaccccaa gaagtaccgc aagatgaagg agaggcttgt cggcgtctct g 291

<210> 1514  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<400> 1514

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tggcgctctc tgtggagaag acctcgtctg gacgggagta caaggtcaag gatctctcgc 120  
 aggcggactt cgcccgctc gagattgagc tggccgaggt cgaaatgcc gccctcatgg 180  
 cgtgccgcgc cgagttcggc ccgtccaagc ccttcgccgg cgctaggatc tcgggggtctc 240  
 tccacatgac catccagacc gccgtcctca tcgagaccct caccgcgctc ggcgccgagg 300

<210> 1515  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1515

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 gacgttgtct ctgaagctga catcttcgtg accaccactg gcaacaagga tatcatcatg 120  
 gttgaccaca tgaggaagat gaagaacaat gccattgtct gcaacattgg ccactttgac 180  
 aatgaaattg atatgctcgg ccttgagacc taccctggcg tcaagcgcat caccatc 237

<210> 1516  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<400> 1516

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 ctgagggtcg cctgatgaac cttgggtgtg ctactggcca tcctagcttt gtcattgtcct 120  
 gctcattcac taaccaggtc attgccaac ttgaactgtg gaaggagaag agctctggca 180  
 agtatgagaa gaaggtgtat gtgctcccca agcaccttga tgagaagggt gctgctctcc 240  
 acttg 245

<210> 1517  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<400> 1517

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atggcgctct ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg 120  
caggcggact tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg 180  
gcgtgccgcg ccgagttcgg cccgtccaag cccttcgccg gcgctaggat ctcggggtct 240  
ctccacatga ccatccagac cgccgtcctc atcgagaccc tcaccgcgct cggcgccg 298

<210> 1518  
<211> 239  
<212> DNA  
<213> Zea mays

<400> 1518

ggattacgag aagaccggca agatccccga cccggagtcc accgacaacg ctgagttcaa 60  
gatcgtgctc accatcatcc gcgacggggt caaggctgac cccaagaagt accgcaagat 120  
gaaggagagg cttgtcggcg tctctgagga gaccaccacg ggtgtcaaga ggctctacca 180  
gatgcaggag accggcgccc tctcttccc tgccattaac gtcaacgatt ccgtcacca 239

<210> 1519  
<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1519

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ctaaccaggt cattgcccaa cttgaactgt ggaaggagaa gagctctggc aagtatgaga 120  
agaaggtgta tgtgtcccc aagcaccttg atgagaaggt tgctgctctc cacttgggca 180  
agcttggtgc caagctgacc aagctcacca agtctcaggc cgactacatc agcgtgccga 240  
tcgagggtcc ctacaagcct gccactacc ggtactag 278

<210> 1520  
<211> 272  
<212> DNA  
<213> Zea mays

<400> 1520

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gaagatgaag aacaatgccaa ttgtctgcaa cattggccac ttgacaatg aaattgatat 120

gctcggcctt gagacctacc ctggcgtcaa gcgcatacacc atcaagcccc agactgaccg 180  
 ctgggtgttc cccgagacca acaactggcat cattgtcttg ctgagggtcg ctgatgaact 240  
 tgggtgttat ggccatctag tttgtcatgt ct 272

<210> 1521  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1521

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 gagaagacct cgtctggacg ggagtacaag gtcaaggatc tctcgcaggc ggacttcggc 120  
 cgccctcgaga ttgagctggc cgaggtcgaa atgcccggcc tcatggcgtg ccgcgacgag 180  
 ttcggcccgt ccaagccctt cgccggcgct aggatctcgg ggtctctcca catgaccatc 240  
 cagaccgccc tcctcatcga gaccctcacc gcgctcggcg ncg 283

<210> 1522  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<400> 1522

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 cgagaccaac actggcatca ttgtccttgc tgagggtcgc ctgatgaacc ttgggtgtgc 120  
 tactggccat cctagctttg tcatgtcctg ctcatcact aaccaggtea ttgcccaact 180  
 tgaactgtgg aaggagaaga gctctggcaa gtatgagaag aagggtgatg tgctc 235

<210> 1523  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1523

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 gcgacgccac gctgctcatc cacganggtg tcaaggccga ggaggattac gagaagaccg 120

gcaaaatncc cgancccgga gatcancgga naaagcgngt ncaaaaagtg gnncaanaat 180  
aatcggaag gggtnaangn tnaccccnag aagtaccgca agatgaanga gaggtttgtn 240  
ggcgtctctn aggagaccac cacgggtgtn aagaggctct accagatgca ggagaccggc 300  
ggcctctctt tcc 313

<210> 1524  
<211> 299  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1524

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ggcgtctctt gtggagnaga cctcgtnnng acgggagtag aaggtcaagg atctctcgca 120  
ggcggacttc ggccgcgcgc agattgagct ggccgaggtc gaaatgcccc gcctcatggc 180  
gtgccgcgcc gagttcggcc cgtccaagcc cttcgccggc gctaggatct cgggggtctt 240  
ccacatgacc atccagaccg ccgtcctcat cgagaccctc ancgcgctcg gcgccgagg 299

<210> 1525  
<211> 232  
<212> DNA  
<213> Zea mays

<400> 1525

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caagatcgtg ctcaccatca tccgcgacgg gctcaaggct gacccaaga agtaccgca 120  
gatgaaggag aggtttgtcg gcgtctctga ggagaccacc acgggtgtca agaggctcta 180  
ccagatgcag gagaccggcg cctcctctt cctgcccatt aacgtcaacg at 232

<210> 1526  
<211> 317  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1526

cctcactccc gtccatttc cccatctccc agatccaatt cgcgagttct cctcctctg 60



ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120  
tctcgcaggc ggacttcggc cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180  
tcatggcgtg ccgcgccgag ttcgggccgt ccaagcnttt cgccggcgct aggatcttcg 240  
gggtctctcc acatgaccat ccagaccgcc gtcctcatcg agaccctcac cgcgctggcg 300  
ccgaagtccg ctggtgt 317

<210> 1527  
<211> 289  
<212> DNA  
<213> Zea mays

<400> 1527  
tcccgttcca ttccccatc tcccagatcc aattcgcgag ttctccctcc tctgccgcca 60  
tggcgcctctc tgtggagaag acctcgtctg gacgggagta caaggtaag gatctctcgc 120  
aggcggactt cggccgcctc gagattgagc tggccgaggt cgaaatgccc ggctcatgg 180  
cgtgccgcgc cgagttcggc ccgtccaagc ccttcgccgg cgctaggatc tcggggctctc 240  
tccacatgac catccagacc gccgtcctca tcgagaccct caccgcgct 289

<210> 1528  
<211> 299  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1528

ctcactctcg ttcentttcc centctccca gatccaattc gcgagtnctc cctcctctgc 60  
ggccatggcg ctctctgtgg agaagacctc gtctggacgg gagtacaagg tcaaggatct 120  
ctcgcaggcg gaettcggcc gcctcgagat tgagctggcc gaggtcgaaa tgcccggcct 180  
catggcgtgc ngcgacgagt tcggcccgtc caagcccttc gccggcgcta ggatctcggg 240  
gtctctccac atgaccatcc agaccgccgt cctcatcgag accctcaccg cgctcgng 299

<210> 1529  
<211> 245  
<212> DNA  
<213> Zea mays

<400> 1529

ctgatgaacc ttgggtgtgc tactggccat cctagctttg tcatgtcctg ctcattcact 60  
aaccagggtca ttgcccaact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 120  
aagggtgatg tgctcccaa gcaccttgat gagaagggtg ctgctctcca cttgggcaag 180  
cttggtgcca agctgaccaa gtcaccaag tctcaggccg actacatcag cgtgccgac 240  
gaggg 245

<210> 1530

<211> 287

<212> DNA

<213> Zea mays

<400> 1530

cccgttccat ttccccatct cccagatcca attcgcgagt tctccctcct ctgccgccat 60  
ggcgtctctt gtggagaaga cctcgtctgg acgggagtac aaggtaagg atctctcgca 120  
ggcggacttc ggccgcctcg agattgagct ggccgaggtc gaaatgccg gcctcatggc 180  
gtgccgcgcc gagttcggcc cgtccaagcc cttcgcggc gctaggatct cgggggtctct 240  
ccacatgacc atccagaccg ccgtcctcat cgagaccctc accgcgc 287

<210> 1531

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1531

gctcaccatc atccgcgacg ggctcaaggc tgacccaag aagtaccgca agatgaagga 60  
naggcttggt cggcgtctct gaggagacca ccacgggtgt tcaagaggct ctaccagatg 120  
caggagaccg gcgcctctnt cttccctgcc attaacgtca acgattccgt caccaagagc 180  
aagtttgana acctgtatgg ttgccgccan tcgtcctgat ggtctgatga gggcactgac 240  
gttatgatcg ccggaaggtn gccgtggtct gcgaatacgt ntt 283

<210> 1532

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
 <400> 1532

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ccgttcatt tccccatctc ccagatccaa ttgcgcgagtt ctccctcctc tgccgccatg 60
gcgctctctg tggagaagac ctcgctctgga cgggagtaca aggtcaagga tctctcgag 120
gcggacttcg gccgcctcga gattgagctg gccgaggctg aaatgcccgg cctcatggcg 180
tgccgcgncg agttcggccc gtccaagccc ttgcgccggcg ctaggatctc ggggtcttcc 240
acatgaccat ccagaccgcc gtcctcatcg agaccctcac cgcgctcggc gcgagggtccg 300
t 301
```

<210> 1533  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1533

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ctgagggtcg cctgatgaac cttgggtgtg ntactggcca tcctagnctt tgtcatgtcc 60
tgctcattca ctaaccaggt cattgccc aa cntgaactgt ggaaggagaa gagctctggc 120
aagtatgaga agaaggtgta tgtgctcccc aagcaccttg atgagaaggt tgctgctctc 180
cacttgggca agcttgggtgc caagctgacc aagctcacca agtctcaggc cgactacatc 240
agcgtgccga tcgaggtcct acaagcct 268
```

<210> 1534  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1534

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ctctcgttcc atttccccat ctcccagatc caattcgcga gttctccctc ctctcgggcc 60
atggcgctct ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg 120
caggcggact tcggccgcct cgagattgag ctggccgang tcgaaatgcc cggcctcatg 180
gcgtgccgcg ccgagttcgg cccgtccaan cccttcgccg gcgctaggat ctcggggtct 240
ctccacatga ccatccagac cgccgtcctc atcgagaccc tcaccg 286
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<210> 1535

<211> 233

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1535

gcaantttga caacctgtat ggttgccgcc actcactccc tgatggtctg atganggccca 60  
ccgacgttat gatcgccggt aaggttgccg tggctcgcgg atacggtgat gttggcaagg 120  
gttgtgccgc tgcantcaag caggctgggtg cccgtgtcat tgtgaccgag atcgacccca 180  
tctnngccct ccaggctctg ntggagggtc ttcaggctct tcccttggag gac 233

<210> 1536

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1536

ctcccagatc caattcgcca gttctccctc ctctgccgcc atggcgctct ctgtggagaa 60  
gacctcgtct ggacgggagt acaaggtcaa ggatctctcg caggcggact tcggccgcct 120  
cgagattgag ctggccgagg tcgaaatgcc cggcctcatg gcgtgccgcg ccgagttcgg 180  
cccgtccaag cccttcgccg gcgctaagat ctcggggtct ctccacatga ccatccagac 240  
cgccgtcctc atcgagaacc tcaccgcntt ggcgccgaag tccgtggtgt cctgcaanat 300  
tttccangca gaccaggcgg cggcggcatg ggcggtatgg 339

<210> 1537

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1537

antgngnan cgggggtcaa ggctgacccc aagaagtacc gcaagatgaa ggagagactt 60  
gtcggcgtct ctgaggagac nnccacggga nttcaagagg cactacncag atgcaggana 120  
ccggcgccct cctcttcctt gccattaacg tcaacgattc cgtcaccaag agcaagtttg 180  
acaacctgta tggttgccgc cactcgctcc ctgatggtct gatgagggcc actgacgtta 240

tgatcgccg aaaggttgcc gtg

263

<210> 1538

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1538

attgtgaccg agatcgaccc catctgtgcc ctccaggctc tgatggaggg tcttcaggtc 60

cttcccttgg aggacgttgt ctctgaagct gacatcttcg tgaccaccac tggcaacaag 120

gatatcatca tggttgacca catgaggaag atgaagaaca atgccattgt ctgcaacatt 180

ggccactttg acaatgaaat tgatatnctc ggcttgata cctacc 226

<210> 1539

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1539

ctcactcccg ttcentttcc ccatctccca gntccanttc gcgagttctc cctcctctgc 60

cgccatggcg ntctctgtgg agaagacntc gtctggacgg gagtacaagg tcaaggatnt 120

ctcgcaggcg ganttcggcc gcctcgagat tgantcggcc gaggtcgaaa tgcccggcct 180

catggcgtgc cgcgccgagt tcggcccgtc caancccttc gccgcncta ggatntcggg 240

gtctctccac atgaccatcc agaccgccgt cctcatcgag accctcaccg cgctcggcnt 300

ga 302

<210> 1540

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1540

agctgacatc ttcgtgacca ccaactggcaa caaggatatc atcatggttg accacatgag 60

gaagatgaag aacaatgccaa ttgtctgcaa cattggccac tttgacaatg aaattgatat 120

gctcggcctt gagacctanc ctggcgtcaa ggcattacca tcaagcccca gactgancgc 180  
 tgggtgtttc cccgagacca aactggcat cattgtcctt gctgagggtc gctggatgna 240  
 ncttgggtgt gctactgggc atcctagttt tgtcatg 277

<210> 1541  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 1541

ccgttccatt tccccatctc ccagatccaa ttgcgcgagtt ctccctcctc tgctcgact 60  
 ggggcgaggc gggcgggccc gacctcatcg tcgacgacgg cggcgacgcc aacgctgctc 120  
 atccacgagg gtgtcaaggc cgaggaggat tacgagaaga ccggcaagat tccgaccggy 180  
 agtccaccga caacgctgag ttcaagatcg tgctcaccat catccgcgac gggctcaagg 240  
 ctgaccccaa gaagtaccgc aagatgaagg agag 274

<210> 1542  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1542

cggaacgctg ggangctgac atcttcgtga ccaccactgg caacaaggat atcatcatgg 60  
 ttgaccacat gaggaagatg aagaacaatg ccattgtctg caacattggc cactttgaca 120  
 atgaaattga tatgctcggc cttgagacct accctggcgt caagcgcac accatcaagc 180  
 cccagactga ccgtgggtgt tccccgagac caacaactggc atcatgtctt gtgaaggctg 240  
 ctg 243

<210> 1543  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<400> 1543

cctcactccc gttccatttc cccatctccc agatccaatt cgcgagttct cctcctctg 60  
 ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120

tctcgcaggc ggacttcggc cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180  
tcatggcgtg ccgcgccgag ttcgggccgt ccaagccctt cgccggcgct aggatctcgg 240  
ggtctctcca catgaccatc cagaccgccg tctcatoga gacc 284

<210> 1544  
<211> 261  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1544

ctcccagatc caattcgcga gttctccctc ctctgccgcc atggcgctct ctgtggagaa 60  
gacctcgtct ggacgggagt acaagggtcaa ggatctctcg caggcggact tcggccgcct 120  
cgagattgag ctggccgagg tcgaaatgcc cggcctcatg gcgtgccgcg ccgagttcgg 180  
cccgtccaag cccttcgccg gcgctaggat ctcggggtct ctccacatga ncatccagac 240  
cgccgtcctc atcgagaccc t 261

<210> 1545  
<211> 280  
<212> DNA  
<213> Zea mays

<400> 1545

ctctcgttcc atttcccat ctcccagatc caattcgcga gttctccctc ctctgccgcc 60  
atggcgctct ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg 120  
caggcggact tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg 180  
gcgtgccgcg ccgagttcgg cccgtccaag cccttcgccg gcgctaggat ctcggggtct 240  
ctccacatga ccatccagac cgccgtcctc atcgagaccc 280

<210> 1546  
<211> 288  
<212> DNA  
<213> Zea mays

<400> 1546

ctccctcact cccgttccat ttcccatct cccagatcca attcgcgagt tctccctcct 60

ctgccgccat gcgctctctg tggagaagac ctcgtctgga cgggagtaca aggtcaagga 120  
tctctcgag gcggacttcg gccgcctcga gattgagctg gccgaggtcg aaatgcccgg 180  
cctcatggcg tgccgcgccg agttcggccc gtccaagccc ttcgccggcg ctaggatctc 240  
ggggtctctc cacatgacca tccagaccgc cgtcctcatc gagaccct 288

<210> 1547

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1547

atctcccaga tccaattcgc gagttctccc tcctctgcgg ccatggcgct ctctgtggag 60  
aagacctcgt ctggacggga gtacaaggtc aaggatctct cgcaggcgga cttcggccgc 120  
ctcgagattg agctggccga ggtcgaaatg cccggcctca tggcgtgccg cgccgagttc 180  
ggcccgtcca agcccttcgc cggcgctagg atctcgggggt ctctccacat gaccatccag 240  
accgcngtcc tcatcgagac 260

<210> 1548

<211> 212

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1548

tactggtggt gcaccgagcg ctgcctcgac tggggcgagg cgggcggcca cgacctcatc 60  
gncgacgacg gcggcgacgc cacgctgctc atccacgagg gtgtcaaggc cgaggaggat 120  
tacgagaaga ccggcaagat ccccgacccg gagtcanccg acaacgctga gttcaagatc 180  
gtgctcacca tcatccgcga cgggctcaag gt 212

<210> 1549

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1549

cggacgntgg tagtggttgt gccgctgcac tncaagcagg ctggtgcccg tgtcattgng 60



nccgagatcg accccatctg cncctccag gctctgatgg agggctctca ggctcttccc 120  
 ttggaggacg ttgtctcgga agctgacatc ttcgtgacca cactggcaa caaggatata 180  
 atcatggttg accacatgag gaagatgaag aacaatgcc a ttgtctgcaa cattggccat 240  
 ttgacaatga attgatatgc tcggccttga gacctac 277

<210> 1550  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1550

ggtgcaccga gcgctgcctc gactggggcg angcgngcgg cncgcacctc atcgctcgacg 60  
 acggcngcga cgccacgctg ctcanccacg anggtgtcaa ggccgntggg gattacgagn 120  
 agaccggcna gatccccgac ccgngtnca ccgacaacgc tgagttcaag atcggtgctca 180  
 ccatcntccg ngacgggctn aacgctgacc ccaagaagta ccgcnaantg aangagangt 240  
 tgtaggcgtc tctgangaga ncacnacggg tgtnaag 277

<210> 1551  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1551

ctttgtcatg tcctgctcat tcactaacca ggtcattgcc naacttgaac tgtggaagga 60  
 gaagagctct ggcaagtatg agaagaaggt gtatgtgctc cccaagcacc ttgatgagaa 120  
 ggttgctgct ctccacttgg gcaagcttgg tgccaagctg accaagctca ccaagtctca 180  
 ggccgactac atcagcgtgc cgatcgaggg tccctacaag cctgcccact accggtacta 240  
 ggcacacggc ttgcagctca ctgggccgt tgtgtgctat gaagttcgct a 291

<210> 1552  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<400> 1552

ctcccgttcc atttcccat ctcccagatc caattcgga gttctccctc ctctgccgcc 60  
atggcgctct ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg 120  
caggcggact tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg 180  
gcgtgccgcg ccgagttcgg cccgtccaag cccttcgccg gcgctaggat ctcggggtct 240  
ctccacatga ccatccagac cgccgtcctc atcg 274

<210> 1553

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1553

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ggagaagagc tctggcaagt atgagaagaa ggtgtatgtg ctccccaagc accttgatga 120  
gaaggttgct gctctccact tgggcaagct tggtgccaag ctgaccaagc tcaccaagtc 180  
tcaggccgac tacatcagcg tgccgatcga gggtccttaa caagcctgcc cactaccggt 240  
actaggcagc cagcacacgg cttgcagctc actcgggcgt tgtgtgcaan nanttcgana 300  
cnngggcctgn aatnatatt 318

<210> 1554

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1554

gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc tgctcattca 60  
ctaaccaggt cattgcccaa cttgaactgt ggaaggagaa gagctctggc aagtatgaga 120  
agaagggtgta tgtgtcctcc aagcancttg atgagaagggt tgctgctctc cacttgggca 180  
agcttggtgc caagctgacc aagttcacca agtctcaggc cg 222

<210> 1555

<211> 259

<212> DNA

<213> Zea mays

<400> 1555

catttcccca tctcccagat ccaattcgcg agttctccct cctctgcggc catggcgctc 60  
tctgtggaga agacctcgtc tggacgggag tacaaggta aggatctctc gcaggcggac 120  
ttcggccgcc tcgagattga gctggccgag gtcgaaatgc ccggcctcat ggcgtagccg 180  
gccgagttcg gcccggtccaa gcccttcgcc ggcgctagga tctcggggtc tctccacatg 240  
accatccaga ccgccgtcc 259

<210> 1556

<211> 260

<212> DNA

<213> Zea mays

<400> 1556

cgttccattt ccccatctcc cagatccaat tcgcgagttc tccctcctct gcggccatgg 60  
cgctctctgt ggagaagacc tcgtctggac gggagtacaa ggtcaaggat ctctcgagg 120  
cggacttcgg ccgcctcgag attgagctgg ccgaggtcga aatgcccggc ctcatggcgt 180  
gccgcgccga gttcggcccc tccaagccct tcgccggcgc taggatctcg gggctctctc 240  
acatgaccat ccagaccgcc 260

<210> 1557

<211> 271

<212> DNA

<213> Zea mays

<400> 1557

cctcactccc gttccatttc cccatctccc agatccaatt cgcgagttct cctcctctg 60  
ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120  
tctcgaggc ggacttcggc cgctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180  
tcatggcgtg ccgcgccgag ttcgggcccg ccaagccctt cgccggcgct aggatctcg 240  
ggtctctcca catgaccatc cagaccgccc c 271

<210> 1558

<211> 223

<212> DNA

<213> Zea mays

<400> 1558

ttcctcatgt ggtcaaccat gatgaagatg aagaacaatg ccattgtctg caacattggc 60  
cactttgaca atgaaattga tatgctcggc cttgagacct accctggcgt caagcgcac 120  
accatcaagc ccagactga ccgctgggtg ttccccgaga ccaacactgg catcattgtc 180  
cttgctgagg gtcgcctgat gaacttgggt gtgctactgg cca 223

<210> 1559

<211> 293

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1559

cccgttccat ttccccatct ccagatcca attcgcgagt tctccctcct ctgccgccat 60  
ggcgtctctc tgtggagaag acctcgtctg gacgggagta caangtcaag gatctctcgc 120  
aggcggactt cggccgcctc gagattgagc tggccgaggt cgaaatgccg ggccctcatgg 180  
cgtgccgcgc cgagttcggc ccgtccaagc ccttcgccgg cgctaggatc tcggggctctc 240  
tccacatgac catccanacc gngtctctca tcgagacctc accgenttgg nnc 293

<210> 1560

<211> 244

<212> DNA

<213> Zea mays

<400> 1560

cccagatcca attcgcgagt tctccctcct ctgccgccat ggcgtctctc gtggagaaga 60  
cctcgtctgg acgggagtag aaggtcaagg atctctcgca ggcggacttc ggccgcctcg 120  
agattgagct ggccgaggtc gaaatgcccg gcctcatggc gtgccgcgcc gagttcggcc 180  
cgtccaagcc cttcgccggc gctaggatct cgggggtctct ccacatgacc atccagaccg 240  
ccgt 244

<210> 1561

<211> 358

<212> DNA

<213> Zea mays

<223>        unsure at all n locations  
 <400>        1561

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gaagngcaag tntgacnacc tgtatggttg ccgncactcg ctcccngatg gnctgatgan   60
ggcnactgac gttatgatcg ncggaaaagc tgccgtngtc ttgcgaatan gtnntgtggg  120
caaggtggtg ttnttggcct caagaaggcn gtgcccgtgt canttgaccg agatcgaccc  180
catctgtgcc tccaggctct gatggagggt cttcaggctt tcccttgag gacgttgtct  240
ctgangtgac atcttcgtga ccaccactgg caaccaagga tatchcatgg ttgancacat  300
gagaagatga agaacaatgc cattgtctgc aacattggca cttgacaaga antgtatc   358
```

<210>        1562  
 <211>        218  
 <212>        DNA  
 <213>        Zea mays

<400>        1562

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gtcatgtcct gctcattcac taaccagggtc attgcctaac ttgaactgtg gaaggagaag   60
agctctggca agtatgagaa gaaggtgtat gtgctcccca agcaccttga tgagaagggt  120
gctgctctcc acttgggcaa gcttgggtgcc aagctgacca agctcaccaa gtctcaggcc  180
gactacatca gcgtgccgat cgagggtccc tacaagcc                               218
```

<210>        1563  
 <211>        269  
 <212>        DNA  
 <213>        Zea mays

<400>        1563

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cctccctcac tctcggtcca tttccccatc tcccagatcc aattcgcgag ttctccctcc   60
tctgcggcca tggcgctctc tgtggagaag acctcgctcg gacgggagta caaggtcaag  120
gatctctcgc aggcggactt cggccgcctc gagattgagc tggccgaggt cgaaatgccc  180
ggcctcatgg cgtgccgcgc cgagttcggc ccgtccaagc ccttcgcgg cgctaggatc  240
tcggggtctc tccacatgac catccagac                                       269
```

<210>        1564  
 <211>        260  
 <212>        DNA  
 <213>        Zea mays

<400> 1564

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atggcgctct ctgtggagaa gacctcgtct ggacgggagt acaagggtcaa ggatctctcg 120  
caggcggact tcggccgcct cgagattgag ctggccgagg tcgaaatgcc cggcctcatg 180  
gcgtgccgcg ccgagttcgg ccggtccaag cccttcgccg gcgctaggat ctcggggtct 240  
ctccacatga ccatccagac 260

<210> 1565

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1565

cgactggggc gaggcgggcg gccccgacct catcgtcgac gacggacggc gacgccacgc 60  
tgctncattc cacgaggggtg tcaaggccga ggaggactac gagaagaccg gcaagatccc 120  
cgatccggag tccaccgaca acgctgagtt caagatcgtg ctcaccatca tccgcgacgg 180  
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<210> 1566

<211> 282

<212> DNA

<213> Zea mays

<400> 1566

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tgggcaagct tggtgccaag ctgaccaagc tcaccaagtc tcaggccgac tacatcagcg 180  
tgccgatcga gggtcctac aagcctgccc actaccggtg ctaggcagcc agcacacggc 240  
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<210> 1567

<211> 235

<212> DNA

<213> Zea mays  
 <223> unsure at all n locations  
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 gggctctncc acatgaccat ccagaccgcc gtctcatcg agaccntcac ngcgctcggc 180  
 gccgagggtcc gtgggtgcncc ngcaacatct tctccagcag gancacgccg ccgcc 235  
  
 <210> 1568  
 <211> 239  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gaccatccag accgccgtcc tcatcgagac cctcaccgcg ctcggcgccg aggtcngctg 180  
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 <212> DNA  
 <213> Zea mays  
 <400> 1569  
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 ggacttcggc cgctcgaga ttgagctggc cgaggtcgaa atgcccgcc tcatggcgtg 180  
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 <210> 1570  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<400> 1570

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atctctcgca ggcggacttc ggccgcctcg agattgagct ggccgaggtc gaaatgcccg 180
gcctcatggc gtgccgcgcc gagttcggcc cgtccaagcc cttcgccggc gctaggatct 240
cggggtctct ccacatgacc atcc 264
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<210> 1571

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1571

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gggcaagctt ggtgccaaagc tgaccaagct caccaagtct caggccgact acatcagcgt 180
gccgatcgag ggtccctaca agcctgcca ctaccggtac taggcnacgg cttgcagctt 240
cactcgggcc gttgtgtgct atgaagttcg ctac 274
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<210> 1572

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1572

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cttcggccgc ctcgagattg agctggccga ggtcgaaatg cccggnctca tggcgtgccg 180
cgccgagttc ggcccgtcca ancccttcgc cggcgctaag atctcggggg ctctccacat 240
gaccatccag ancgncgtcc tcatcgagac cctcancgng ctngggggg 289
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<210> 1573

<211> 276

<212> DNA



<213> Zea mays

<223> unsure at all n locations

<400> 1573

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ttcttcatct tctcatgtg gtcaaccatg atgatatcct tgttgccagt ggtggtcacg 180

aagatgtcag cttccgaggt caacggctcc aagctgtcgc ctgangagct cgtgggtgctg 240

caggggtgcc cgtgcccgcc gtctaagctc cgcccg 276

<210> 1574

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1574

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tctctgcag gcggacttcg gccgcctcga gattgagctg gccgaggtcg aaatgcccgg 180

cctcatggcg tgccgcgccg agttcggccc gtccaagcnc ttcgccggcg taggattcgg 240

ggtctctcca catgaccatc cagaccgccg tctcatcgag acctcacgcg tcggcgccga 300

ggtcgtggtg 310

<210> 1575

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1575

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gagaagacct cgtctggacg ggagtacaag gtcaaggatc tctcgcaggc ggacttcggc 120

cgccctcgaga ttgagctggc cgaggtcgaa atgcccggcc tcatggcgtg ccgcgccgag 180

ttcggcccgt ccaagccctt cgccggcgct angatctcgg ggtctctcca catgacatcc 240

a 241

<210> 1576

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1576

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ggttgctgct ctccacttgg gcaagcttgg tgccaagctg accaagctca ccaagtctca 180  
ggccgactac atnccgcgtg ccgacgcagg gtccctacaa gcctgcccac ttaccggtat 240  
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<210> 1577

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1577

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caaggtaag gatctctcgc aggcggactt cgcccgctc gagattgagc tggccnaggt 180  
cgaaatgcc ggctcatgg cgtgccgcgc cgagttcggc ccgtccaagc ccttcgccgg 240  
cgctaggatc tcggggtctc tccacatgac ca 272

<210> 1578

<211> 179

<212> DNA

<213> Zea mays

<400> 1578

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cgttatgata gccggtaagg ttgccgtggt ctgcggatac ggtgatgttg gcaagggtt 179

<210> 1579  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1579

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 gccgcctcga gattgagctg gccgaggtcg aaatgcccg cctcatggcg tgccgcgccg 180  
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<210> 1580  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<400> 1580

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 cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc tcatggcgtg ccgcgccgag 180  
 ttcgggccgt ccaagccttt cgccggcgta ggatctcggg gtctctccac atgaccatcc 240  
 aga 243

<210> 1581  
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 <212> DNA  
 <213> Zea mays

<400> 1581

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 ggcggacttc ggccgcctcg agattgagct ggccgaggtc gaaatgcccg gcctcatggc 180  
 gtgccgcgcc gagttcggcc cgtccaagcc cttcgccggc gctaggatct cgggggtctct 240  
 ccacatg 247

<210> 1582  
 <211> 246  
 <212> DNA  
 <213> Zea mays

<400> 1582

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 gcggacttcg gccgcctcga gattgagctg gccgaggctg aaatgcccg cctcatggcg 180  
 tgccgcgccg agttcggccc gtccaagccc ttccgcggcg ctaggatctc ggggtctctc 240  
 cacatg 246

<210> 1583  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ggcctcaagg cgtgccgcgc cgagtnggcc cgnccaagcc ctccgcggcg gctaggatct 240  
 cggggtctct ccacatgacc atccagaccg ccgtcc 276

<210> 1584  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1584

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 aacactggca tcattgtcct tgctgagggg cgctganga nccttgtgtg tactnntg 178

<210> 1585

<211> 175  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1585  
  
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 caccatcatc cgcgacgggc tcaaggctga cccaagaag taccgcaaga tgaag 175  
  
 <210> 1586  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agttcggccc gtccaagccc ttgcgcggcg ctaggatctc ggggtctctc cacat 235  
  
 <210> 1587  
 <211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1587  
  
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 <210> 1588  
 <211> 236  
 <212> DNA  
 <213> Zea mays  
  
 <400> 1588  
  
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gtgccgcgcc gagttcggcc cgtccaagcc cttcgccggc gctaggatct cggggt 236

<210> 1589  
<211> 272  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1589

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cacattgaca aagaaatgnt angcncgggc ccgnagaccn aacccggcgg caanngnanc 180  
aacaacnagg cccagacgga ncgccggggg gncccccaga ccaacacggn aacaagtcct 240  
gncgaggggc gcccgangaa ccatngggga gc 272

<210> 1590  
<211> 260  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1590

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ctcatggcgt gccgcgccga gttcggcccc tccaagcct tcgccggcgc taggatctcg 240  
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<211> 245  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1591

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<223> unsure at all n locations  
 <400> 1592

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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1593

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 cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc tcatggcggt ccgcgccgag 180  
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<210> 1594  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<400> 1594

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<210> 1595  
<211> 149  
<212> DNA  
<213> Zea mays

<400> 1595

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<223> unsure at all n locations  
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<210> 1598

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1598

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<210> 1599

<211> 227

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cgtccaagcc cttcgccggc gtaggatctc ggggtcctca natgaca 227

<210> 1600

<211> 236

<212> DNA

<213> Zea mays

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<210> 1601

<211> 209  
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 <213> Zea mays

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<210> 1602  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 accnaagtnc ccngatatcc gngnncnact tcccaacant tgaggaacct acantgcatt 360  
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 <211> 232  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <400> 1603

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<211> 218  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<211> 134  
<212> DNA  
<213> Zea mays

<400> 1605

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ctggtgcccg tgtc 134

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<211> 152  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1606

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<210> 1607  
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<212> DNA  
<213> Zea mays

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<223>      unsure at all n locations
<400>      1607
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nnctcccact	tgggcaagct	tgggtgccaa	ctgaccaagc	tcaccaagtc	tcaggccgac	120
tacatcagcg	tgccgatcga	gggtccctac	aagcctgccc	actaccggta	ctaggcagcc	180
agcacacggc	ttgcagctca	cttcggggccg	ttgtgtgcta	tnaagtncnc	nncactgnc	240
ctgtcagttc	atctttttgca	tgcatatgca	ntatcatata	cgcacgcg		287

<210>	1608
<211>	123
<212>	DNA
<213>	Zea mays

```
<223>      unsure at all n locations
<400>      1608
```

```
tgtctctgaa gctgacatct tcgtgaccac cactggcaac aaggatatca tcatggttga    60
ccacatgagg aagatgaaga acaatgccat tgtctgcaac attggccact ttgacaatga   120
ant                                         123
```

<210>	1609
<211>	348
<212>	DNA
<213>	Zea mays

```
<223>      unsure at all n locations
<400>      1609
```

atcgccgga	agggtgccgn	ggtctgcgga	tacggtgatg	tnnncaagg	ttgtgctgct	60
gccctcaagc	aggctggtgc	ccgtgtcatt	gtgaccgaga	tcgaccccat	ctgtgcnctc	120
caggctctga	tggagggtt	caggctcttc	cttgaggagac	gtgtctctga	agcnnacatc	180
tcgtgacaac	attggcanca	agtatcatca	tggtgaccac	atgaggaaga	gaagacccat	240
gccatgtctg	cacattggca	ctttgacatg	aattgatatc	tcggcttgag	actacctgng	300
tcaanqctca	catcagcccn	gatgacgtgg	tgtcccgaga	canatgga		348

<210>	1610
<211>	266
<212>	DNA
<213>	Zea mays

atcaagcccc	agactgaccg	ctgggtgttg	atggtgatgc	gcttgacgcc	agggnaggtc	60
tcaaggccga	gcataatcaat	ttccattgtc	aaagtggcca	atgttgcaga	caatggccag	120
tggtcttcat	ccttcctcat	gtggtcaacc	atgatgaata	tccttgttgc	cagtgggtgg	180
tcacgaagat	gtcagctttc	cggaggnaaa	cggctccann	ctgtcgctga	gaanncggtg	240
tgcngnaggg	gtgcccgtgc	cgengc				266

```
<223>      unsure at all n locations
<400>      1611
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```
gcggatacgg tgatgtcggc aagggttgtg ctgctgcact caaacaggct ggtgcccgta 60
tcattgtgac cgagatcnac cccatctgtg ccctccaggc tctgatggag ggtcttcagg 120
tcnttccctt ggagnacggt ntt 143
```

<400>	1612
-------	------

aacgattccg tcaccaagag caagtttgac aacctgtatg gttgccgccca ctactccct 60  
gatggtctga tgagggccac cgacgttatg atcgccggta aggttgccgt ggtctgcg 118

```
<223>      unsure at all n locations
<400>      1613
```

ttctccctca ctcccgttcc atttcccat ctcccaganc caattcgcgga gtnctccctc 60  
ctctgccgcc atgqcqctct ctgtggagaa gacctcgtct ggacggggagt acaaggtcaa 120

ggattctcgc aggcggactt cggccgcctc gagattgagt ggccgaggtc gaaatgccgg 180  
ctcatggcgt gccgcggcga gttcggccccg tccaagcctt cggcggcgta agatctcggg 240  
gtctttcaca tgaacatcag accgc 265

<210> 1614  
<211> 111  
<212> DNA  
<213> Zea mays

<400> 1614

catggttgac cacatgagga agatgaagaa caatgccatt gtctgcaaca ttggccactt 60  
tgacaatgaa attgatatgc tcggccttga gacctaccct ggcgtcaagc g 111

<210> 1615  
<211> 154  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1615

cncccagatc caattcgcga gtnccccnc ctctgccgcc atggcgctct ctgtggagaa 60  
gacntcgtct ggacgggagt acaagggtcaa ggatctctcg caggcggacn tcggccgcct 120  
cgagattgag cnggccgagg tcgaaatncc cggc 154

<210> 1616  
<211> 226  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1616

cccagatcca attcgcgagt tctccctcct ctgccgccat ggcgtctctt gtggagaaga 60  
cctcgtcctg gaacgggagn acaagggtcaa ggntntntng naggngnant tnggcngcnt 120  
cnanattnan ctggccnagg tcgaaatgcc cggcntnatg gcggtcngcg ccganttcgg 180  
cccgtccaag ccttcgccgg cgnaggntc tcgggggtctt cnacat 226

<210> 1617  
<211> 229  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1617

ggatatcatc atggttgcca gtggtggtca cgaagatgtc agcttcagag acaacgtcct 60

ccaaggggaag gacctgaaga ccctccatca gagcctggag ggacacagatg gggtcganct 120

cggtcacaag gntatcatcn ngggtgacca catgagggnag atgaagaaca atgccattgt 180

ctgcaacatt ggccactttg acaatgaaat tgatatgtc ggccttgag 229

<210> 1618

<211> 120

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1618

ctttgtcntg tcctgctcat tcaactaacca ggtcattgcc caacttgaac tgtggangga 60

gaagagctct ggcnagtatg anaagaaggt gtatgtgtc cccaagcacc ttgatgagaa 120

<210> 1619

<211> 109

<212> DNA

<213> Zea mays

<400> 1619

gtgccctcca ggctctgatg gagggctctc aggtccttcc cttggaggac gttgtctctg 60

aagctgacat cttcgtgacc accactggca acaaggatat catcatggt 109

<210> 1620

<211> 96

<212> DNA

<213> Zea mays

<400> 1620

ggttgaccac atgaggaaga tgaagaacaa tgccattgtc tgcaacattg gccactttga 60

caatgaaatt gatatgctcg gccttgagac ctaccc 96

<210> 1621

<211> 118

<212> DNA

<213> Zea mays  
 <223> unsure at all n locations  
 <400> 1621

cgctgagttc aagatcgtgc tcaccatcat ccgcgacggg ctcnaggctg accccaagaa 60  
 gtnccgcaag atgaaggaga ngcttgctcg cgtctctaag gagancancc angggtgt 118

<210> 1622  
 <211> 559  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <400> 1622

gnnnnnnngnn tnncnagann nnttcncttt ccaacncctc ttgaatttcc gggtcgaccc 60  
 acgcgtccgc aacctgtatg gntgccgnca ctngatccct gatgggtctga tgagggccac 120  
 tgaccgttat gntcgccgga aaggttgccg tgggtctnccg atacngtgat ntngcaagg 180  
 gttgtgctgc tgcaaatnaa gcanggctng tgcccgtntc attgtnaccc gagancnacn 240  
 natctgtncn nntacangct cttattngaa ggtctttang nccttcnctt ggaaganngt 300  
 ggctntgaag ctncatnttn ngaccaccac tgnnaacaag gatatnnnat ggttgaccac 360  
 atgangaana tgaagnacaa tgccattggc tгнаacattg ggccactttt gacaatgaan 420  
 ttgatatgct cnggccttga gacctaccct ggcgtaaaag cgcattatnc atcaaanccc 480  
 anactgaccg cttgggtgtt tccngagacc aaacactggc atcattggtc cttnctgaag 540  
 ggtcnnctgg ntnaacntt 559

<210> 1623  
 <211> 88  
 <212> DNA  
 <213> Zea mays  
 <400> 1623

cgacaacgct gagttcaaga tcgtgctcac catcatccgc gacgggctca aggctgaccc 60  
 caagaagtac cgcaagatga aggagagg 88

<210> 1624  
 <211> 82  
 <212> DNA



<213> Zea mays  
 <400> 1624  
 atcttctcca cgcaggacca cgcgcgcgcc gccatcgcgc gcgactcggc cgccgtgttc 60  
 gcctggaagg gggagaccct cg 82  
  
 <210> 1625  
 <211> 139  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1625  
 cctcactccc gttccatttc cccatctccc agatccaatt cgcgagttct ccctcctctg 60  
 ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120  
 tctcgcangc ggacttcgg 139  
  
 <210> 1626  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1626  
 agcttggtgc caagctgacc aagctcacca agtctcaggc cgactacatc agcgtgccga 60  
 tcgaggggtcc ctacaagcct gccactacc ggtactaggc acacggcttg cagctcactc 120  
 gggccgttgt gtgctatgaa gttcgtaca ctggcctgtc agttatcttt tgcattgcata 180  
 tgcattatca tatacgcagt cgcgtanagg ttttcttatg gttatcgctt gancngnngn 240  
 gggaggggaag gagct 255  
  
 <210> 1627  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <400> 1627  
 acacngtccg ngacgctggg nactgtncng agaacgcgtn ggcggacgcg tgggtttccc 60  
 catatcccag atccanttcg cgagannctc cctcctangc ggccatgacg ctctctgtgg 120

agaagacctc gtctggacgg gagtacaagg tcaaggattc tcgcaggcgg acttcggccg 180  
cctcgagatt gagtgccnag tgaatncccg gcnntgggg gngc 224

<210> 1628  
<211> 113  
<212> DNA  
<213> Zea mays

<400> 1628

cccgttccat ttccccatct cccagatcca attcgcgagt tctccctcct ctgccgccat 60  
ggcgctctct gtggagaaga cctcgtctgg acgggagtag aaggtcaagg atc 113

<210> 1629  
<211> 182  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1629

tctcgttcc atttccccat gctccnagat ccaattccgc gagtncctcc ctctactgc 60  
ggccatggcg ctactctgtg gagaagacct cgtctggacc gggagtacca aggtcaagga 120  
tctctacgca ggcggacttc ggccgntcga gattgagctg gccgaggtag aaatgcccg 180  
cc 182

<210> 1630  
<211> 107  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<400> 1630

ttccatttcc ccctctccca gatccaattc gcgagttctc cctcctctgc ngccatggcg 60  
ctctctgtgg agaagacctc gtctggacgg gagtacaaag ttaaagg 107

<210> 1631  
<211> 283  
<212> DNA  
<213> Zea mays

<400> 1631

aaaatggctt ctcaggtccc tcacgttccg cctcgtgctg ctactgtcct ctcggcgaca 60  
 gagctcatcg gaaatactcc tctcgttaga cttacaaga tccccagtc gctgggcatc 120  
 gagtgcgatg tctacgtcaa gccagagctg ttcagcgctg gaggcagtgt taaggacaga 180  
 attgctctgc gcatgattga agaggcagag aagagcggaa gaatcaagcc tggcgacact 240  
 cttatcgagc ctaccagtgg aaacactggt atcgggtcttg ctc 283

<210> 1632

<211> 269

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1632

gngacgaggt gagggcgggg aggatgagct gctgctgccg cgtcgcgagg atggcgacgc 60  
 cgcgaggggc gagagtggag tggatgatgcg ggtngccgtc gacgcgaanc gccagngtgg 120  
 gtgtaggcgc tcggatgctt ttctaccoga cgctggtgta caacgtcgtg aggaatcggg 180  
 tcgagaagca cttccactgg tgggatcaga tcgatgagca tgtcctgctc ggtgctgttc 240  
 catccctagc gatgttctcc ggctaaaga 269

<210> 1633

<211> 125

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1633

tnctggacng attgtcacat ggatnacnga tcnnatgcat ggaaacacca tcaaggcccc 60  
 ttgtggcctg aagacnccgt ccatttgacn ncatncnggc tgaagtnccg tncctncttc 120  
 gatgt 125

<210> 1634

<211> 123

<212> DNA

<213> Zea mays

<400> 1634

gtgctgttcg caatgctgga ttaattgtca catggattac tgatcctatg catggaaaca 60

ccatcaaggc cccttgtggc ctgaagactc gtccattcga ctcaattctg gctgaagtgc 120  
gcg 123

<210> 1635  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1635

cgcgctcgtng ctcggaattc ggctcgagct tggtttgcct cttgtagctt gagacttgag 60  
gagaatggat accttcctgt tcacttctga gtcggtgaac gagggtcac cgcacaagct 120  
gtgtgatcag atatctgatg cagtgtctga tgcctgcctg gagcaagacc ctgaaagcaa 180  
ggttgcctgt gagacatgca ccaagaccaa cttgggtcatg gtatttggag agatcaccac 240  
aaaagccaat atngactatg agaagattgt gcgcgatacg tgccgttcta taggatttgt 300  
gtctggtgat gt 312

<210> 1636  
<211> 293  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1636

agatcgtgcg tgacacctgc aggaacatcg gcttcgtctc aaacgatgtg ggacttgatg 60  
ctgacaactg caaggtcctt gtaaacattg agcagcagag ccctgatttg gccaggggtg 120  
gcacggcaac ttaaccaaag acccgaggaa atcgggtgtg agaccagggt cactgtttgc 180  
tatgcacgga cgagacccca gattgngcca tgagtcatgt ncttncaata aactcgggtg 240  
cgtctaccga gntcgcaaga cggnacttcc cnggttgggc tatggaanac cna 293

<210> 1637  
<211> 288  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1637

tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagc aagacccaag tcaactgttga 60  
gtactacaat gacaaggggtg ccatgggttcc aatccgcgtc cacactgtgc ncatctccac 120  
acagcatgat gagncctgtc acaaatgatg ngattgcagc tganctnaaa gaacacgtga 180  
ttaagcntgt gattccngng nagtaccttg nngagccgac cnntggccng tngaaccctc 240  
tggcagggttn gncttgnagg ccgcgtgggg atgctgggnt caccggcc 288

<210> 1638  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1638

gngtacntaa gctcgggaatt cggctcgagn taaantcggg gctcgtctca ncgagggttcg 60  
caagaacggt acctgccctt ggntgaggcc tgntgggaag anccaagtga ntgttncccta 120  
ttanaatgac aatggtgcca gggntcctat ncnggtacac acngtgctaa tntccacnca 180  
acacgangan ncntgtccnc cantgacgan attgctgntg ncctcaaaga gcatgtgntc 240  
aagnctgtgn ngcnagataa gtaccttggt gnggagncca tttncnttgn nc 292

<210> 1639  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1639

tcgcangcac gcgtacgtaa gctcgggaat tcggctcgag ctgctgcata tggacacttt 60  
ggaagagagg accctgactt cacatgggaa gtgatcaagc cactcaagtg ggaggaggcc 120  
taaggccatt cattcctcac cgctgtgtgc tgggagtttt ttgagctttg cccttatcat 180  
atctataatt tgtttcattt attttactta attcgtgtgt gcttctcact ttctctncct 240  
cctctccatt ctattttggt tcttctatcc tcatatgtaa ttttt 285

<210> 1640  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 1640

cgcatgcacg cgtacgtaag ctccgaattc ggctcgagga agattgtgcg cgatacgtgc 60  
cgttctatag gatttgtgtc tggatgatgtt ggccttgatg ctgacaatgc aaggatttgg 120  
tgtaccttga gcagcaaagt cctgacatag cacaaggagt ccatggccac ctcaccaagc 180  
gaccagaaga cataggagct ggcgatcagg gtcacatgtt tggctacgcc acagatgaaa 240  
cacctgagct tatgcctctc agccatgtcc ttgca 275

<210> 1641

<211> 317

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1641

ttcannantn gcatgcacgc gtacgtaagc tcngaattcn gctcganctc nagccgaatc 60  
ggctcgagtg nagcttancc tcaagtagca tgagatcaan ccggtgatac cggacaanta 120  
ncttgnntgn gaagnccatt ttccagttca acccctctgg ccgttttgtc attngaggtc 180  
ctcaacngtg atgctcntct caccagccga caagatccat tcnnccgnta cttanggagg 240  
cnggggtgct catngtggtg gtgccttctc cggaacgat cccaacaagg tttatangag 300  
ttgtgttaca ntgtgag 317

<210> 1642

<211> 278

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1642

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ctctctacaa ttttttttta 60  
atctttttga ttcgcttctg gcttttttga ctctaaattg ggacgaaaag tcgagccttc 120  
gaagaaacgc agaaactcat aaaccatcgc tgactccgca attttcgtcg gttcctcaca 180  
cactctctga ttttaancncg gtgccaagct caccgagggt cggaagaacg ggacatgccc 240  
ttggctgaga cctgatggca agaccaagt cactgttg 278

<210> 1643

<211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1643  
  
 gatctcaaga ggggtgggaa taacagggttc ttgaagactg ctgcatatgg acacttcggc 60  
 agagaggacc ctgacttcac atgggaagtg gtcaagcccc tcaagtggaa tgaatgggag 120  
 ttttttagcg ttgcccttat aatgtctntt atccataact ttccacgtcc cttgctctgt 180  
 gtttttctct cgtcgtcctc ctccatatntt gttttctcng cctttcattt gtaatttttt 240  
 acatgatcaa ctaaaaaat 259

<210> 1644  
 <211> 191  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1644  
  
 gcngcgtacg taagctcggn nttcggctcg aggagnattn tgacttcacg cctggaatga 60  
 tntccatcaa tcttgaccnc atganaanga gggaaacttc aggtanccag aagactgntg 120  
 cttatggaca ttttggaaga gatgatccgg atttcacatg ggagacagtg aagataactca 180  
 agcctngtgc t 191

<210> 1645  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1645  
  
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 tgcaaagttc tgggtcaacat tgagcaacag agccctgata ttgctcaagg agttcacggt 120  
 catatgacca agaaacctga ggaaattggg gctggtgacc aaggccacat gtttggttat 180  
 gctacagacg aaacacctga gttaatgcca ctactcatg tgcttgctac taaacttntt 240  
 gccaggctca ctgagggtgag aaagaacaaa acatgccctt ggctgaggcc agatggtaaa 300  
 acccaagtga cattgag 317

<210> 1646  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1646

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 tcattatcga cacctatggt ggttgggggtg ctcatggtgg tggcgccttc tccggcaagg 120  
 acccaaccaa ggttgatagg agtgggtgcat acattgttag gcaagcagcc aagagcgtgg 180  
 tagcttcagg gcttgacgga cgttgcatg tgcaggtttc ttatgcaatt ggagttccag 240  
 agccactttc tgtgtttgta gacacatacc aaacggggaa gattccagac aaggacatat 300  
 tggctctaata taagga 316

<210> 1647  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1647

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 atcatgttcg gatatnccac cgacgagacc cccgagctcc ttcctctgac cgtcctcctc 120  
 tcccacaanc tgaactcggc catgaccaag gtcgcnagg attgtactct gccatggctg 180  
 cgacccgaca ccaagactca ggtcactgtc gagtacgcc acgatggcgg tgccgtcgtc 240  
 cctctccgtg ttgacaccgt cgtcgtctct gnccagcana ncgaggacat cactatcgag 300  
 aagctccgag aggagatcaa ggagaagatc at 332

<210> 1648  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1648

gtcgcangca cncgtacgta agctcgggaat tcggctcgag nggtgtgcac ggccacctta 60



ccaaaagacc cgangnaata tcaggncctct gctgctcaag gtccttgtaa acattgagca 120  
gcagagccct gatattgccc aggggtgtgca cggccacctt accaaaagac ccgaggaaat 180  
cggtgctgga gaccagggtc acatgtttgg ctatgccact gtcgagaccc cagaattgat 240  
gccattgagt catgttcttg caactaaact cggtgctcgt ctcaccgagg ttcgcaa 297

<210> 1649  
<211> 348  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1649

gtctcnnnca cgcgtacgta agctcgagaa tcggctcgag ctngcagccn ggttactgtc 60  
tgntnaagct anccatctct ntctctctnt cttaagnngn tccttngnna canntagaa 120  
tggcctnaga aattncctat tcacnctnna tcagtgaacg ngnggcanc ctcacaggnn 180  
ctgtgaccag atctccgatg ctgtgntcng attcatgctt ggagcaggac cctgagagca 240  
aggttgccctg tgaagcctgc aacaagacca acatgggtgtt ggttttcgga gagatcacia 300  
ccaaggccaa cgtggncctat ganaagattg tgcgggacac atgcaagg 348

<210> 1650  
<211> 324  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1650

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caacaccttn ntttgcannc gntgcttctt ctcgcttgag anntggcaca agaaaccntt 120  
ctatncacat ctgantctgt anacgagggg caccgccgac aagctgtgcg nccagatctc 180  
tgatggcagt gctcgatgcg tgcctgnacn ggaccctgag cagcgagggt gcctgtnaga 240  
catgcaccaa gaccngnntg gncatggtct ttggngagat cagnanccaa ggncagcagt 300  
aggctatgag aannttnnnc gtga 324

<210> 1651  
<211> 318  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1651

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tcacangcac gcgtacgtaa gctcgggaatt cggctcgagg cagacttcac ctgggaagtt 60
gtgaagccac tcaagtcaga gaagcctcaa gcttaagagt gttgttaagt taatcactac 120
ccttcagtgg ntgtcttgct ggggtgtggat gaataatttg cgtgtttcat gactactact 180
actactactc cnttcnntgt ctaatgccat ctcatcnatn nctaaactgn tcgntttntt 240
tttnctcctt atactcncaa tttgttggtt ggcnatgnaa tgtcactgtg ttgatgcatg 300
gaattttatc caaangaa 318
```

<210> 1652

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1652

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ncgcntgcac gcgtacgtaa gctcgggaatt cngctcgagn ggctcgagcg cttgcctcga 60
acaggacca gacagcaagg ttgcctgcga aacatgcacn aaaaccaact tggatcatggn 120
cttcggagaa atcacgacca aggccaatgt tgactacgag aagatagtgc gtgtacaccc 180
tgagcaatat cagggctctg ctgctcaatg ttgacgagga ccttgcagtt gtcggcatcc 240
agtcccatat cgtttgagac aaagccgatg ttcccgaata tcttggtggt tggagcgatc 300
cgagaaaaac tc 312
```

<210> 1653

<211> 320

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1653

```
tcgntncant aanagtcgna ngcacgcgta cgtnagctcg gaattcggct cnnnctgtaa 60
nccgagggtc accccgacaa ncntgtgcga cnagatctct gatgcagtgc tcgatgcgtg 120
ccttgaacag gaccctgaca gcaagggttc ctgtgagaca tgcaccaaga ccaacatggt 180
catggtcttt ggagagatca caaccagggc aangtanann ntgagaagan tgtcnnggan 240
```

anangccgcg aaattggatt cnaccccgga nnanttgggt nnnnncnna aaantnnngg 300  
 ntnggncaan nnttgnnncnc 320

<210> 1654  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1654

ggntnnnnnn aactnttacg ctctcaggtg cccgtcanag aattnacggg tcgagccacg 60  
 cgtcagtacg gatgcgagaa gacgacagaa gggggcagcg cttgagacca agccccactc 120  
 aaccaacaca acactctctc tgctcctcct ctaactttca aagtttttta agtnnttaga 180  
 tggcagagac attcctaatt acctcaaagt cncтнаacga agganacctg acaagctctg 240  
 cgaacaaatn tccgatgctg tnctnnaanc ctgccttgaa caagacccaa acagcaaagt 300  
 tncctgccaa acatgcccca agaccaactt tgtcnangtc ctccgagaaa ttnccaccaa 360  
 gggcaacntt nactacgana anatnntgcg ttacacctgc nggaacatcg gggtcntctc 420  
 aaacgaagtt ggactttatg cctgacaaat gcaanggcc tnttaacaat ngncancaa 480  
 aaccctgaaa ntncccaagg gggttg 506

<210> 1655  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1655

ggnnnnnnnn nnnancttta actctccgcg ttcaggtaaa ggtttagaat tcccgggncg 60  
 acccagcgt cnanccang cgtccgtacg gctgcgagag gangacagaa gggggcagcg 120  
 cttgagacca agccccactc aaccaccaca ccactctctc tgctcntctt ctatctttca 180  
 acgtttttna agtattaaga tggcataaac attcctatth acttcatant cagtnaanga 240  
 gggacacnct gacgtinctt gcgannanat ctngattct gtcctcnacn cntgccttna 300  
 tnatgacnca cncancatcg ttgcttgnta natatacncc angaccaact tngtcntggg 360  
 ctccggagag atnnccatna tggcnaacgt tgactancat gaagatcntg cntnacacct 420

gcaagaattc ggattcgtct caaaccatgt tggganttat gctgannntg naaggttcnt 480  
 tgnaaacggt tgnccntttc a 501

<210> 1656  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1656

angggtgata ttntgtgtcn aaaggatatag tangtgntag attntcttcg gtttcggtat 60  
 taccnacnng acccacgcgt cccgcccacg cgtccggctg cgataagacg acagaanggg 120  
 atacctatgg tggctggggg gngggatggg ggaagtgcct tttgggggaa ngaccctacc 180  
 aaggttgaca gaagtgggtc ctatattgta aggcatgctg caaanagtgt ngtggcaaatt 240  
 ggccttgcta naagggtgat tgtgcaagtt tcctatncca ttgggtgtccc tgaacccttg 300  
 tcanatgttt ntngacactt atngaactgn naanattcna nacaanngag atttttctat 360  
 anntatanga ataattttta nnttnananc tngnnnnngtn tnncataaan nttngtaant 420  
 aaataagnnn naantntttt gttnatttaa naaatnttan tnttnnttta natagnnaaa 480  
 taatttttna agtnnatttn nngtnnnntt nnaaattatg tannatatnt ctt 533

<210> 1657  
 <211> 314  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1657

tacttgtttc ngaatnaccg gcnggaccca cgcgtccgta cggctgagag aagacgacag 60  
 aaggggggtg ctgggggtgct catgggtggag atgnggggtc aggnaaagac nnnngggggg 120  
 gttgacagaa ntgggtgccta tattgtaagg cangtgcaa agantgncgt ggcaaatggc 180  
 cttgctagaa ngtgcattgt ncaagtttcc tatgcnattn gtgtncctaa nccntnntaa 240  
 atgttnttng atncnnattg aanttnnaan tanttcattn ataangataa tttanataat 300  
 taanaatnga ngaa 314

<210> 1658  
 <211> 557  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1658

gnnngggggg ngttttcggc cacgttgnac taggagactt cnttggaaacg cccnggangn 60  
 ttcgggncga cccacgcgnc cggcnngccn canngaacca ccacacctct tntcgttttt 120  
 gctaccccnt tctgcnctac ggggaccggg naagtitttaa nngggtaang atggcagaga 180  
 caatnnnatt taccnnagag tcggtgaacg agggacaccc tgacaagcnn tgcgaccaaa 240  
 tncccnatgc tgtcctcnac gcttgccctng agcaggaccc anacagcaaa gngtgnctgc 300  
 tgaaacatgc accaaaacca actnggncat gggcttgggg gaaatnacaa ccaaggncac 360  
 ggcngactac gacaagatag nncagagaca cctgcangaa cntnggacnt cgnntnaaat 420  
 gaagtgnnga nttggatgcc nnnaacttgc caagntccnn ngntaaccat tgtacaatna 480  
 tgatccccgg ngagttggtc naggcntaca agggncacn ntntcnanaa ancnggantt 540  
 attngnnntt tggtgnc 557

<210> 1659  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1659

cgtcgcangc acgcgtacgt aagctcggaa ttcggctcga gnnactttcc tcttcacctc 60  
 agaatctgta aacgaaggcc atccccgaaa gctgtgtgac caggtttcag atgccatcct 120  
 agatgcatgc ttggagcaag acccagaaaag caaggttgct tgcgagacct gtacaaaaaac 180  
 taacatggtt atggtctttg gtgagattac aaccaaggcc agcgtgaact acgagaaaaat 240  
 agttcgagac acttgcaaaag gcattgggtt tgtgtcacca gatgt 285

<210> 1660  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 1660

cacgcgtacg taagctcgga attcggctcg agcttcctct tcgcacaaag cagcaagcat 60  
 ccttgagatg gaaactttcc tcttcacctc agaatctgta aacgaaggcc atcccgacaa 120  
 gctgtgtgac cagggtttcag atgccatcct agatgcatgc ttggagcaag acccagaaag 180  
 caaggttgct tgcgagacct gtacaaaaac taacatgggt atgggtctttg gtgagattac 240  
 aaccaaggcc agcgtgaact acgagaaaat agttcgagac acttgcaaag gcattggggt 300  
 tgtg 304

<210> 1661  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1661

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ntccatcttc ttcttctctt 60  
 cctcttcgca caaagcagca agnatccttg agatggaaac ttctctnctt cacctcagaa 120  
 tctgtaaacg aaggccatcc cgacaagctg tgtgaccagg ttccagatgc catcctagat 180  
 gcatgcttgg agcaagaccc agaaagcaag gttgcttgcg agacctgtac aaaaactaac 240  
 atggttatgg tctttgggtga gattacaacc aaggccagcg tga 283

<210> 1662  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1662

gagctggtga ccagggtcac atgtttgggt atgccaccga tgaaaccccc gagtacatgc 60  
 ccctcagcca tgtccttgca accaaacttg gtgctcgctt cacagagggt aggaagaatg 120  
 gcacctgtgc ttggttgagg ccagatggta agacacaagt aaccgtcgag tactacaatg 180  
 acaatggtgc catgggtcca gttcgtgtcc aactgtcct aatttccacc caacatgatg 240  
 agactgtgag caatgatcaa attgctgcgg accttaaaga gcatgttatt aagcctgtca 300  
 ttcttgagaa gtaccttgat gagaagacca tcttcacact taacccttct ggccggtttg 360  
 tcattggtgg ccctcatggt gatgctgggt tcaactgggaa gaaagatnat cattgatacc 420

taagggtggct ggggtgctca aggtgga

447

<210> 1663

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1663

ccacgcgtcc gcacaaagcg ggttactgtc tgttcaagct accatctctc tctctctttc 60

ttagngcctc cttgccagaa gttaaaatgg cccaagaaac tttcctattc acatctgaat 120

cagtgaacga ggggcaccct gacaagctct gtgaccagat ctccgatgct gtgctcgatg 180

catgcttgga gcaggaccct gacagcaagg ttgcctgtga aacctgcacc aagaccaaca 240

tggtgatggt tttcggagag atcacaacca aggccaacgt ggactatgag aagattgtgc 300

gtgacacatg caggaacatt ggttttgtct ctgatgatgt tggtcttgat gctgacaact 360

gcaaggctct cgtcaacatt gagcaacaga gtcctgatat tgctcaagggt gtgcacggnc 420

acctnacaaa gaggcctgag gagattggtg ctggtgacca aggtcatatg ttcgg 475

<210> 1664

<211> 520

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1664

gnngnnnnnnn aggaggtntt gntntggaan cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gagaagacga cagaaggggt 120

ctcaaattgat gtgggactgg atgccgacaa ctgcaaggtc ctcgtaaca ttgagcagca 180

gagccctgat attgctcagg gtgtacacgg ccaccttacc aaaaaacctg aagaaattgg 240

tgctggtgac cagggtcaca tgtttggtta tgccactgat gaaaccctg aattgatgcc 300

attgagccat gttcttgcaa caaaactcgg tgctcgtctc accgaggttc gcaagaacgg 360

tacctgccct tggctgaggc ctgatgggaa gaccaagtg accgttgagt attacaatga 420

caatggtgcc agggttccta ttcgtgtaca caccgtgcta atctccaccc aacacgacga 480

gactgtcacc aatgacaaa ttgntgntta acctnaaaaa 520

<210> 1665  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1665

```

ggngnnnnga atgatctagg tnntctatgc cgagacatga cgnaagancc acnggtacgt   60
aaactcggaa ttcggtctga gaacagcaca aagcgggtta ctgtctgttc aagctaccat  120
ctctctctct ctttcttagt gcctccttgc cagaagttaa aatggcccaa gaaactttcc  180
tattcacatc tgaatcagtg aacgaggggc accctgacaa gctctgtgac cagatctccg  240
atgctgtgct cgatgcatgc ttggagcagg accctgacag caagggtgcc tgtgaaacct  300
gcaccaagac caacatggtg atgggttttcg gagagatnac aaccaaggcc aacgtggact  360
atgagaagat tgtgctgac acatgcagga acattgggtt tgtctctgat gatgttggtc  420
ttgatgctga caactgcaag gtcctcgtca acattgagca acagagtcct gatattgctc  480
aaggtgtgca cngg                                                    494
  
```

<210> 1666  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1666

```

gnagtgtttg ntntgggggg ggggagnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaaagcgg gttactgtct  120
gttcaagcta ccatctctct ctctctttct tagtgccctc ttgccagaag ttaaaatggc  180
ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccttg acaagctctg  240
tgaccagatc tccgatgctg tgctcgatgc atgcttgagg caggaccctg acagcaaggt  300
tgacctgtgaa acctgcacca agaccaacat ggtgatgggt ttcgagaga tcacaaccaa  360
ggccaacgtg gactatgaga agattgtgcg tgacacatgc aggaacattg ggttttgtct  420
ctgatgatgt tggctctgat gctgacaact gcaaggtccc tcgtcaacat tgagcaacag  480
agtcctgata ttgctcaagg tg                                                    502
  
```



<210> 1667  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1667

gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcacctg 60  
 acaagctctg tgaccagatn tccgatgctg tgctcgatgc atgcttggag caggacctga 120  
 cagcaagggt gcctgtgaaa cctgnaccaa gaccaacatg gtgatgggtt tcggagagat 180  
 cacaaccaag gccaacgtgg actatgagaa gattgtgcgt gacacatgca ggaacattgg 240  
 ttttgtctct gatgatgttg gtcttgatgc tgacaactgc aagtcctcgt caacattgag 300  
 caacagagtc ctgatattgc tcaagggtg cacggccact cacaagagg cctgaggaga 360  
 ttggtgtggt na 372

<210> 1668  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1668

tgaatttang ttgcctgccc aagagaatga agtcgcanc cgcgtacgt aaactcggaa 60  
 ttcggctcga ggtcggtgaa cgagggacac cctgacaagc tctgcgacca aatctccgat 120  
 gctgtcctcg acgcttgcc tgcagaggac ccagacagca aagttgcctg cgaaacatgc 180  
 accaaaacca acttggtcat ggtcttcgga gaaatcacga ccaaggccaa cgttgactac 240  
 gagaagatag tgcgtgacac ctgcaggaac atcggcttcg tctcaaata tgtgggactg 300  
 gatgccgaca actgcaagg cctccgtcaa cattgagcag cagagccctg atattgctca 360  
 aggtgtacac gggcaactta ccaaaaaacc tgaagaaatt ngtgctggtg accaagggtca 420  
 cattttgggt aatnccactg gntgnaaaacc ccngnat tgncccattg accnagttct 480  
 tnncaaa 487

<210> 1669  
 <211> 419

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1669  
 cgagcttgag cagacttaac aacagcacia agcgggttac tgtctgttca agctaccatc 60  
 tctctctctc tttcttagtg cctccttgcc agaagttaaa atggcccaag aaactttcct 120  
 attcacatct gaatcagtga acgaggggca ccctgacaag ctctgtgacc agatctccga 180  
 tgctgtgctc gatgcatgct tggagcagga ccctgacagc aagggtgcct gtgaaacctg 240  
 caccaagacc aacatggtga tggttttcgg agagatcaca accaaggcca acgtggacta 300  
 tgagaagatt gtgcgtgaca catgcaggaa cattgggttt gtctctgatg atgttgggtc 360  
 ttgatgctga caactgcaag gtcctngtca acattgagca acagaatcct gatattgct 419

<210> 1670  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1670  
 nccacgcgtc cgagcgcagtg ttctttnttc gtttcaacac cttaatttgc acacgctggn 60  
 tottcagcng gngaaatggc acangaaacc tttctattca catctgaatc tgnaaacgag 120  
 ggtcaccocg acaagctgtg cgaccagatc tctgatgcag ngctcgatgc gtgccttgaa 180  
 caggaccctg acagcaaggt tgccctgtgag acatgcacca agaccaacat ggcatggtc 240  
 tttggagaga tcacaaccaa ggccaacgta gactatgaga agattgtccg tgacacatgc 300  
 cgngaaattg gattcatctc tgatgatggt ggtcttgatg ctgacaaatg caaggngttg 360  
 gtcaacattg aacancaaan ccctgatatc nccaggngn gcacggncac ttcaccaacc 420  
 cccaaaagaa ggttnggctn ggnncca 447

<210> 1671  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1671

gggnaggctt ngtcnncgan gggggatgta atggnaacct ctagaagact atgacgtcgc 60  
 atgcacgcgt acgtaagctc ggaattcggc tcgagcacca caccactctc tctgctcttc 120  
 ttctaccttt naagnnttta aagtattaag atggcagaga cattcctatt tacctcagag 180  
 tcagtgaacg agggacaccc tgacaagctc tgcgaccaa tctccgatgc tgtcctcgac 240  
 gcttgccctg aacaggaccc agacagcaag gttgcctgcg aaacatgcac caagaccaac 300  
 ttggatcatg tcttcggaga gatcaccacc aaggccaacg ttgactaccg aagaagatcc 360  
 gtgcgtgaca cctgcaggaa catcggtctc gtctcaaacg atgtgggact tgatgctgac 420  
 aactgcaagg tccttgtaaa cattgagcag cagagccctg atattgcca ggggtgtgcac 480  
 ggncacctta ccaaaagacc cgaggaaatc ggtgctg 517

<210> 1672  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1672

aactttaccc tccaggtngc ngtcaaagaa ttcacgggtc gacccacgcg tccgtacggc 60  
 tgcgaagaag acgacagaag ggggcaccgc ttgagcagac ttaacaacag cacaaagcgg 120  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgccctc ttgccagaag 180  
 ttaaaatggc ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg 240  
 acaagctctg tgaccagatc tccgatgctg tgctcgggtc atgcttggag caggaccctg 300  
 acagcaaggt tgctgtgaa acctgcacca agaccaacat ggtgatgggt ttcggagaga 360  
 tcacaaccaa ggccaacgtg gactatgaga agattgtgcg tgacacatgc aggaacattg 420  
 gttttgtctc tgatgatggt ggtcttgatg ctgacaactg caaaggctct cgtcaacatt 480  
 gagcaacaaa at 492

<210> 1673  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1673

gngntgnngc aactcnactn nccaggcctg gtcacagaat naacggggccg anncacgcgt 60  
cnaagaccaa agccccactc aaacaacaca ccaatctctc tgctcctcct cnaactttca 120  
agttttttaa gtnttaaaga tggcagagac attcctaatt nacctcagag tcagtgaacg 180  
agggacaccc tgacaagctc tgcgaccaa tctccgatgc tgctcctcnac gcttgccttg 240  
aacaggaccc agacagcaan gttgcctgcg aaacatgcac caagaccaac ttggatcatgg 300  
tcttcggaga gatnaccanc aaggccaacg ttgactacga gaagatngtg cgtgacacct 360  
gcangaacat cggcttcgtc tcaaacgatg tgggacttga tgctgacaac tgcaagggtcc 420  
ttgtaaacad tgagcaacaa aaccctgata ttgcccagg tgtncacggc caacttacca 480  
aaaganccga aggaaatcng tgc 503

<210> 1674  
<211> 508  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1674

ggncnnnnga ntgatttagg ttcctangcc acanaaatgn aactgacctc gncgcacgc 60  
ntacgtaagc tcggaattcg gctcgagggtg gactatgaga agattgtgcg tgacacatgc 120  
aggaacattg gttttgtctc tgatgatgtt ggtcttgatg ctgacaactg caaggctcctc 180  
gtcaacattg agcaacagag tcttgatatt gctcaagggtg tgcacggcca cctcaciaaag 240  
aggcctgagg agattggtgc tggtgaccaa ggtcatatgt tcggctatgc cactgacgag 300  
actcccagagc tcatgccctt gagccatgtc cttgccacga agctcgggtgc caagctcanc 360  
gacggtccgg aaaaacngga aatgcccttg ggctgaaaac ctgatggcaa nnaccaagtc 420  
actgttgnnn tactacaatt gacaagggtt ccatgggtcc aatccgcgtc aaaactgttg 480  
ctcatntcca anacagcaat gatngaga 508

<210> 1675  
<211> 334  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1675

gccttttcag ggaaggaccc taccaagggtt gacagnagtg gtgcctatat tgtaaggcag 60  
gctgcaaaga gtgtcgtggc aaatggcctt gctagaagggt gcattgtgca agtttcctat 120  
gccattggtg tccctgagcc cttgtcagtg tttgtggaca cttatggaac tgggaagatt 180  
cctgacaagg agattctgca aattgtgaag gagaatttcg acttcagacc tggaatgatc 240  
accattaact tggaccttaa gaggggtggt cataggttcc tcaagacagc tgcttatgga 300  
cactttggaa gggatgatgc agacttcacc tggg 334

<210> 1676  
<211> 335  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1676

agtcgcatgc acgcgtacgt aagctcggaa ttcggctcga ggcaagggtg cctgtgaaac 60  
ctgcaccaag accaacaatgg tgatgggtttt cggagagatc acaaccaagg ccaacgtgga 120  
ctatganaag attgtgcgtg acacatgcag gaacattggt nttgtctctg atgatgttgg 180  
tcttgatgct gacaactgca aggtcctcgt caacattgag caacagagtc ctgatattgc 240  
tcaagggtgtg cacggccacc tcacaaagag gcctgnggag attggtgctg gtgaccaagg 300  
tcatatgttc ggctatgcca ctgacgagac tcccg 335

<210> 1677  
<211> 337  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1677

aaagatgcct gaggagattg gtgctggtga ccaaggatcat atgttcgggt atgccactga 60  
cgagactccc gatctcatnn cttgagccat gtccttgcca cgaagctcgg ngccaagctc 120  
accgaggttc gnaagaacgg gacatgccct tggctgagac ctgatggcaa gacccaagtc 180  
actggtgagt actacaatga caagggtgcc atggttccaa tccgcgtcca cactgtgctc 240  
atctccacac agcatgatga gccctgtcac aaatgatgag attgcagctg atcttaaaga 300  
acacgtgant aagcctgtga ttcctgagaa gtacctt 337

<210> 1678  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1678

```
ccacgcgtcc gccacgcgt ccgcccacgc gtccggtgga cttgccagaa ggtgcattgt    60
gcaagtgtct tatgccattg gtgtgcctga gcctttgtct gtgtttgttg acacctatgg   120
cactgggaag atccatgata aggagattct caacattgtg aaggaaaact ttgatttcag   180
gcctggtatg atctccatca accttgatct caagaggggt ggaaataaca ggtttttgaa   240
gactgctgcc tatggacact ttggaagaga agaccctgac ttcacatggg aagtgggtcaa   300
accctcaag tgggagaagg cctaagtaat tcattccact gctctatgct ggaagttttt   360
tgagcgttgc ccttataata tgtctaatat ccataacttt ccacgtctct tactctgtgt   420
gtttctctcc tnttntctta ttttggtg                                     448
```

<210> 1679  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1679

```
tgcangcgta cgtaagctcg gaattcggct cgagnctgct aagcagcatt gtggcaagtg    60
gacttgccag aaggtgcatt gtgcaagtgt cttatgccat tgggtgtgcct gagcctttgt   120
ctgtgtttgt tgacacctat ggcaactgga agatccatga taaggagatt ctcaacattg   180
tgaaggaaaa ctttgatttc aggcctggta tgatctccat caaccttgat ctcaagaggg   240
gtggaaataa caggtttttg aagactgctg cctatggaca ctttggaaga gaagaccctg   300
acttcacatg ggaagtggtc aaaccctca antggg                                     336
```

<210> 1680  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1680

gnnnnnnnga atgattngnt tcntgccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cccactcaac caccacacca ctctctctgc 120  
 tcttcttcta cctttcangt ttttacagta ttaagatggc agagacattc ctatttacct 180  
 cagagtcagt gaacgagggg caccctgaca agctctgcga ccaaattctcc gatgctgtcc 240  
 tcgacgcttg ccttgaacag gaccagaca gcaagggtgc ctgcgaaaca tgcaccaaga 300  
 ccaacttggt catggctctt ggagagatca ccaccaaggc caacgttgac tacgagaaga 360  
 tcgtgcgtga cacctgcagg aacatcggt tcgtctcaaa cgatgtggga cttgatgctg 420  
 acaactgcaa ggtccttggt aacattgagc aacaaaaccc tgataattgc caaggggttg 480  
 cacggccacc tta 493

<210> 1681  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1681

agtcgatgca cgcgtacgta agctcggaat tcnngctcgag ntgccgcgaa attggattca 60  
 tctctgatga tgttggtctt gatgctgaca aatgcaagggt gttggtcaac attgagcaac 120  
 agagcccgga tatcgcccag ggtgtgcacg gccacttcac caagcgccca gaggagggtg 180  
 gtgctggtga ccagggtcac atgtttgggt atgccaccga tgaaaccccc gagtacatgc 240  
 ccctcagcca tgtccttgca accaaacttg gtgctcgctt cacagagggt aggaagaatg 300  
 gcacctgtgc ttggttgagg ccagatggta agacacaagt 340

<210> 1682  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1682

cgtnagctcg gaattcggct cgagctgtga ccagatctcc gatgctgtgc tcgatgcatg 60  
 cttggagcag gaccctgaca gcaaagggtt cctgtgaaac ctgcaccaag accaacaatg 120  
 tgatgggttt cggagagatc acaaccaagg ccaacgtgga ctatgagaag attgtgcgtg 180

acacatgcag gaacattggt tttgtctctg atgaanttgg tcttgatgct gacaactgca 240  
 aggtcctcgt caacattgag caacagagtc ctgatattgc tcaagggtgtg cacggccacc 300  
 tcacaaagag gcctgag 317

<210> 1683  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 1683

gagaagacga cagaaggggg cagcgcttga gaccaagccc cactcaacca ccacaccact 60  
 ctctctgctc ttcttctacc tttcaagttt ttaaagtatt aagatggcag agacattcct 120  
 atttacctca gagtcagtga acgaggggaca ccctgacaag ctctgcgacc aaatctccga 180  
 tgctgtcctc gacgcttgcc ttgaacagga cccagacagc aaggttgctt gcgaaacatg 240  
 caccaagacc aacttgggtca tggctcttcgg agagatcacc accaaggcca acgttgacta 300  
 cgagaagatc gtgcgtgaca cctgcaggaa catcggcttc gtctcaaacg atgtgggact 360  
 tgatgctgac aactgcaagg tccttggttaa cattgagcaa caaaag 406

<210> 1684  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1684

actccaccgc gncggtaccg ttntaagncc ccgggccgac aaacgcgtca gtccggctgc 60  
 gagaagacga cagaaggggg accgcttgag cagacttaac aacagcacia agcggggttac 120  
 tgtctgttca agctaccatc tctctctctc tttcttagtg ccttcttgcc agaagttaaa 180  
 atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca ccctgacaag 240  
 ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcanga ccctgacagc 300  
 aaggttgctt gtgaaacctg caccaagacc aacatgggtga tggttttcgg agagatnaca 360  
 accaagggca acgtggacta tgagaagatt gtgcgtgaca catgcaagaa cattgggtttt 420  
 gtctctgatg aagttgggtc tgatgctgac aactgcaang gtctcgttca acattgcagc 480



cancaagat

489

<210> 1685

<211> 506

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1685

gtggnnnnngg gnnaactttt accngccang ggccggtana gaattaacgg ctcganccac 60  
gcgtcaagta cggtcgcnag aagacgacag aaggggatga aaccctgag tacatgcccc 120  
tcagccatgt ccttgcaacc aaactcgggtg ctgcgctcac cgagggttagg aaaaatggta 180  
cctgtgcttg gctgaggcca gatggcaaga cacaagtaac tggtgagtac tacaatgaca 240  
atggtgccat ggttccagtt cgtgtccaca ctgtcctaatt ttccacccaa catgttgaga 300  
ctgtgagcaa tgaccaaatt gctgctgacc ttaaagaaca tggtatcaag cctgtcattc 360  
ctgagaagtn cctggatgag aagaccatct tccaacctta aaccttctgg gcgtttttgn 420  
cnnttggtgg gccccnangg tganncccg gcccanatgg gaaannaaag atttcccnt 480  
ggaaacccan aggttgngn gggntc 506

<210> 1686

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1686

gagccaggc aagccccact caaccaccac acctctctc ggttcacgcc taccctttct 60  
gctcttcttc nacctttcaa gttttaaaag tataaagatg gcanagacat tcctatttac 120  
ctcagagtcg gtgaacgagg gacacctga caagctctgc gaacaaatct ccgatgctgt 180  
cctcgacgct tgctcgagc aggaccana cagcaaagtt gcctgcgaaa catgcaccaa 240  
aaccaacttg gtcatggtct tcggagaaat cacgaccaag gccaacgttg actacgagaa 300  
gatagtgcgt gacacctgca ggaacatcgg ctctgtctca aatgatgtgg gactgggatg 360  
ccgacaactg caaggctctc gtcaacattg agcancagan ccctgatatt gccanggtg 420  
tacacgg 427

<210> 1687  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1687

ggnaactctt cgcggccaaa ctcttacann nccaggtagh gntanangaa ttccccggctc 60  
 gaccacgcg tnacgtacgg ctgcgagaag acgacagaag ggggcagcgc ttgagaccaa 120  
 gcccactca accaccacac cactctctct gctcttcttc tacctttcaa gtttttaaag 180  
 tattaagatg gcagagacat tcctatttac ctgagagtcg gtgaacgagg gacaccctga 240  
 caagctctgc gaccaaactc ccgatgctgt cctcgacgct tgccttgaac aggacccaga 300  
 cagcaagggtt gcctgcgaaa catgcaccaa gaccaacttg gtcattgtct tcggagagat 360  
 caccaccaag gccaacgttg actacganga gatcgtgcgt gacacctgca ggaacatcgg 420  
 cttcgtctca aacgatgtgg gacttgatgc tgacaactgc aaggtccttg taaacattga 480  
 agcagcagag ccctgatatt gccc 504

<210> 1688  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1688

ncgnangcac gcgtacgtna gctcggaatt cggctcgagn ctgaatcngt gaacgagggg 60  
 caccctganc aagctctgtg accagatctc cgatgctgtg ctgatgcat gcttgagca 120  
 ggaccctgac agcaagggtg cctgtgaaac ctgcaccaag accaaccatgg tgatggtttt 180  
 cggagagatc acaaccaagg ccaacgtgga ctatgagaag attgtgcgtg acacatgcag 240  
 gaacattggg tttgtctctg atgatgttgg tottgatgct gacaactgca aggtcctent 300  
 caacattgag caacagagtc ctg 323

<210> 1689  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1689

```
tcggctcgag ngaccatctt ccaccttaac ccttctggcc gttttgtcat tggaggccct 60
catggtgatg ctggtctcac tggaagaaaag atcatcattg atacctatgg tggctgggggt 120
gctcatggtg gaggtgcctt ttcagggaag gaccctacca aggttgacag aagtgggtgcc 180
tatattgtaa ggcaggctgc aaagagtgtc gtggcaaatg gccttgctag aaggtgcatt 240
gtgcaagttt cctatgccat tgggtgccct gagcccttgt cagtgtttgt ggacac 296
```

<210> 1690  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 1690

```
gcacgcgtac gtaagctcgg aattcggctc gagtatgaga agattgtccg tgacacatgc 60
cgcgaaaattg gattcatctc tgatgatgtt ggtcttgatg ctgacaaatg caagggtgtt 120
gtcaacattg agcagcagag ccctgatatc gcccaggggtg tgcacgggtca cttaccaag 180
cgcccagagg aggttgggtc tggtgaccag ggtcacatgt ttggctatgc cactgatgaa 240
acccctgagt acatgccct cagccatgtc cttgcaacca aactcgggtc tcgcctcacc 300
gag 303
```

<210> 1691  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1691

```
gncnatccaa agcgtacgta agctcggaat tcggctcgag ggaacatcgg cttcgtctca 60
aatgatgtgg gactggatgc cgacaactgc aaggctcctg tcaacattga gcagcagagc 120
cctgncattg ctcagggtgt acacggccac cttacaaaaa aacctgaaga aattgggtgct 180
ggtgaccagg gtcacatgtt tggctatgcc actgatgaaa cccctgaatt gatgccattg 240
agccatgttc ntgcaacaaa actcgggtgt cgtctcaccg aggttcgcaa gaacgggtacc 300
tgcccttggc tgaggcctga tgggaagacc caagtg 336
```

<210> 1692  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1692

tcgcatgcnc gcgtacgtna gctcgggaatt cggctcgagg ttaaaatggc ccaaganact 60  
 ttccatttca catctgaatc agtgaacgag gggcaccctg acaagctctg tgaccagatc 120  
 tccgatgctg tgctcgatgc atgcttggag caggaccctg acagcaaggt tgcctgtgaa 180  
 acctgcacca agaccaacat ggtgatgggtt ttcggagaga tcacaaccaa ggccaacgtg 240  
 gactatgaga agattgtgcg tgacacatgc aggaacattg gttttgtctc tgatgatgtt 300  
 ggtcttgatg ctga 314

<210> 1693  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1693

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag tcattatcga tacttatgga 60  
 ggatgggggtg ctcatgggtg tggtgctttc tccgggaagg accctaccaa ggttgatagg 120  
 agtggtgctt acattgtgag acaggctgct aagagcattg tggcaagtgg acttgccaga 180  
 aggtgcattg tgcaagtgtc ttatgccatt ggtgtgcctg agcctttgtc tgtgtttgtt 240  
 gacacctatg gcaactgggaa gatccatgat aaggagattc tcaacattgt gaaggaaaac 300  
 tttgatttca ggcttggtat a 321

<210> 1694  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1694

gngnnnnagt ggntngtgna gtnnactnag nnaaatittg naccggtccg gaattcccgg 60  
 gtcgaccac gcgtccgtac gagaagacga cagaaggggg cagcgcttga tttgaggcca 120

ggcaagcccc actcaaccac cacacctctc ctcgttcacg ctaccctttt ctgctcttct 180  
 tctacctttc aagtttttaa agtataaaga tggcagagac attcctattt acctcagagt 240  
 cggtgaacga gggacacctt gacaagctct gcgaccaaatt ctccgatgct gtcctcgacg 300  
 cttgcctcga gcaggacca gacagcaaag ttgcctgcga aacatgcacc aaaaccaact 360  
 tggatcatggt cttcggagaa atcacgacca aggccaaagt tgactacgag aagatagtgc 420  
 gtgacacctg caggaacatc ggcttcgtct caaatgatgt gggactggat gccgacaact 480  
 gcaaggtcct cgtcaacatt gagcagcaga ccct 514

<210> 1695  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1695

agagaccaag ccccaactcaa ccaccacacc actctctctg ctctttcttcn acctttcaag 60  
 tttttaaagt attaagatgg cagagacatt cctatttacc tcagagtcag tgaacgaggg 120  
 acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gccttgaaca 180  
 ggacccagac agcaagggtt cctgcgaaac atgcaccaag accaacttgg tcatggtctt 240  
 cggagagatc accaccaagg ccaacgttga ctacnagaag atcgtgcgtg acacctgcag 300  
 gaacatcggc ttcgtctcaa acgatgtggg acttgatgct gacaactgca aggtccttgg 360  
 naacnttgag caacaaaanc cctgataatt gccaaaggtgt gcaagggcaa ctttacaaaa 420  
 agacccgang gaat 434

<210> 1696  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1696

ttcgctgcac gcntacgtna gctcggnaat tcggntcgag ngcntacatt gtgagacagg 60  
 ctgctaagag cattgtggca agtggactag ccagaaggtg cattgtgcaa gtgtcttatg 120  
 ccattggtgt gncccgagcc ttgtgtgtc ttgttgaca cctatggcac cggaagatc 180

catgataagg agattctcaa cattgtgaag gagaactttg atttcaggcc cggtatgatc 240  
tccatcaacc ttgatctcaa gaggggtggg aataacaggt tcttgaagac tgctgcatat 300  
ggacacttcg gcagagagga ccctgact 328

<210> 1697  
<211> 496  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1697

aactcttacg tngccaggnn ccggtanaga attaccgggg ncgacccacg cgtcngccca 60  
cncgtccgcc cacgcgtccg acggctgcga gaagacgaca gaaggggggc agcgcttgag 120  
accaagcccc actcaaccac cacaccactc tctctgctct tcttctacct ttcaagtttt 180  
taaagtatta agatggcaga gacattccta ttacctcag agtcagtga cgagggacac 240  
cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt tgaacaggac 300  
ccagacagca aggttgccctg cgaaacatgc accaagacca acttggtcat ggtcttcgga 360  
gagatnacca ccaaggccaa cgttgactac gagaagatcg tgcgtgacac ctgcaggaac 420  
atcggcttcg tctcaaacga tgtgggactg atgctgacaa ctgcaaagtc cttgttaaca 480  
atgaacanca aanccc 496

<210> 1698  
<211> 300  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1698

cgcatgcacg cgtacgtnag ctcggaattc ggctcgaggg agtggtgcct acattgtgag 60  
gcaagctgca aagagcattg ttgcaaattg acttgctagg agggcaattg tgcaagtttc 120  
ctatgccatt ggtgtgcctg agcccttgct tgtgtttggt gacacttatg gcactgggaa 180  
gatccctgac aaggaaatcc tcagcattgt gaaggagagt tttgacttca ggcttggcat 240  
gatctccatc aaccttgatc tcaagagggg tggaaatggc aggttcttga agactgctgc 300

<210> 1699  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1699  
  
 acntnctgca cgcgtacgta agctcggaaat tcggctcgag gtcatgggtct ttggagagat 60  
 cacaaccaag gccaacgtag actatgagaa gattgtccgt gacacatgcc gcgaaattgg 120  
 attcatctct gatgatgttg gtcttgatgc tgacaaatgc aagggtgttg tcaacattga 180  
 gcagcagagc cctgatatcg cccaggggtgt gcacgggtcac ttcaccaagc gccagagga 240  
 ggttggtgct ggtgaccagg gtcacatgtt tggctatgcc actgatgaaa cccctgagta 300  
 cat 303

<210> 1700  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1700  
  
 ncgcnnngcac gcntacgtna gctcggaaatt cggctcgacg caccaagacc aacatgggtga 60  
 tggtttttcgg agagatcaca accaaggcca acgtggacta tgagaagatt gtgcgtgaca 120  
 catgcaggaa cattggtntt gtctctgatg atgttggtct tgatgctgac aactgcaagg 180  
 tcctcgtcaa cattgagcna cagagtcctg atattgctca aggtgtgcac gnccacctca 240  
 caaagaggcc tgaggagatt ggtgctggtg accaagggtca tatgttcggc tatgccactg 300  
 acgagactcc c 311

<210> 1701  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1701  
  
 gagtaacaac agcacaaagc gggttactgt ctgttcaagc taccatctct ctctctcttt 60  
 cttagtgcct ccttgccaga agttaaaatg gcccaagaaa ctttcctatt cacatctgaa 120

tcagtgaacg aggggcaccc tgacaagctc tgtgaccaga tctccgatgc tgtgctcgat 180  
gcatgcttgg agcaggaccc tgacagcaag gttgcctgtg aaacctgcac caagaccaac 240  
atggtgatgg ttttcggaga gatcacaacc aaggccaacg tggactatga gaagattgtg 300  
cgtgacacat gcaggaacat tggttttgtc ccgatgatgt ttggtcctga tgctgacaac 360  
tgcaangtcc cccgtcaaca atgagcaaca nagtccctga aaattgcnca angngttgna 420  
cgggc 425

<210> 1702  
<211> 321  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1702

tgcnccgcta cgtaagctcg gnatttnggc tcgaagcatt gtggcaagtg gactagccag 60  
aaggtgcatt gtgcaagtnt cttatgccat tgggtgtgccc gagcctttgt ctgtctttnt 120  
tgacacctat ggcaccgggn agatccatga taaggagatt ctcnacattg tgaaggagaa 180  
ctttgatttc aggcccggtg tgatctccat caaccttgat ctcaagaggg gtgggnataa 240  
caggttcttg aagactgctg catatggnca cttcggcaga gaggaccctg acttcacatg 300  
ggaagtggtc nagcccctca a 321

<210> 1703  
<211> 311  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1703

tcgcangcac gcntacgtaa gctcgggaatt cggctcgagc ggctcgaggt agactatgag 60  
aagattgtcc gtgacacatg ccgcgaaatt ggattcatct ctgatgatgt tggctcttgat 120  
gctgacaaat gcaagggtgtt ggtcaacatt gagcagcaga gccctgatat cgcccagggt 180  
gtgcacggtc acttcaccaa gcgcccagag gaggttggtg ctggtgacca gggtcacatg 240  
tttggtatg ccaactgatga aaccctgag tacatgcccc tcagccatgt ccttgcgccc 300  
aaactcgggtg n 311



<210> 1704  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1704

ttaacttgcn cgcgccaggt ancggtcaag gaattcccgg gtcgaccac gcgtccgacg 60  
 gctgcgagaa gacgacagaa gggggcagcg cttganacca agccccactc aaccaccaca 120  
 ccactctctc tgctcttctt ctacctttca agttttttaa gtantaagat ggcagagaca 180  
 ttcctattta cctcanagtc agtgaacgag ggacaccctg acaagctctg cgaccaaadc 240  
 tccgatgctg tcctcgacgc ttgccttgaa caggaccacg acagcaaggt tgcctgcgaa 300  
 acatgcacca ngaccanctt ggtcatgggt ctctggagag atcaccacca aggccaacgt 360  
 tgactacgag aagatcgtgc gtgacacctg caggaacatc ggcttcgtct caaacgatgt 420  
 gggacttgat gctgacaact gcaaggctct tgtaaacatt gagcagcaga gcc 473

<210> 1705  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 1705

gcacgcgtac gtaagctcgg aattcggctc gagcaagtaa ctgttgagta ctacaatgac 60  
 aatggtgcca tggttccagt tcgtgtccac actgtcctaa tttccacca acatgatgat 120  
 tctgtgagca atgaccaa atgtgtgtgac cttaaagagc atgttatcaa gctgtgcatt 180  
 cctgagaagt acctggatga gaagaccatc ttccaacctt aacccttctg gccgttttgt 240  
 cattggtggc cctcatggtg atgtgtgtct cactggaaga aagatcatca ttgataccta 300  
 tgggtgggtgg ggtgctcat 319

<210> 1706  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1706

gnnnnnnaan tctacgccgc ccctctaacg ngcacaanat tcnCGGgaac gaccacgcg 60  
 nccgtacggc tgcgaagaag acgacagaag ggggcagcgc ttgagancaa nccccactca 120  
 accaccacac cactctctct gctcttcttc nanccttcaa gtttttaaag tattaagatg 180  
 gcagagacat tcctatttac ctCagagtca gtgaacgagg gacaccctga caagctctgc 240  
 gaccaaactct ccgatgctgt cctcgacgct tgcctttaaa cangacccaa gacagcaaag 300  
 ttgCctgcga aacatgcacc aagaccaact tggatcatggt ctCggagag atnaccacca 360  
 agggcaacgt tgactacgag aagatcgtgc gtgacacctg caggaacatc ggcttcgtct 420  
 caaacgatgt gggacttgat gctgacaact gcaangtcct tgtaaacatt gagcaacaaa 480  
 accctganaa tncCcaaggt ttcaccg 507

<210> 1707  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 1707

ccttttcagg gaaggaccct accaaggttg acagaagtgg tgcctatatt gtaaggcagg 60  
 ctgcaaagag tgtcgtggca aatggccttg ctagaagggtg cattgtgcaa gtttcctatg 120  
 ccattggtgt ccctgagccc ttgtcagtgt ttgtggacac ttatggaact ggggaagattc 180  
 ctgacaagga gattctgcaa attgtgaagg agaatttcga ctCagacct ggaatgatca 240  
 ccattaactt ggaccttaag aggggtgggtc atagggttcct caagacagtg cttatggaca 300  
 ctttggaagg gatgatgcag ctCactggg aagtgtgaac cactcaagtc a 351

<210> 1708  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1708

gngnnnnnng gnnnnnnngn naacttttac gccngtccgt gccggtcana gaattcacgg 60  
 gncgacncac gcgtccnccc acgcgtccgc ccacgcgtcc gccacgcgt ccgctgcgag 120  
 aagacgacag aagggggcag cgcttgagac caagccccac tcaaccacca caccactctc 180  
 tctgctcttc ttctaccttt caagttttta aagtattaag atggcagaga cattcctatt 240

tacctcagag tcagtgaacg agggacaccc tgacaagctc tgcgaccaa tctccgatgc 300  
 tgtcctcgac gcttgccttg aacaggaccc agacagcaag gttgcctgcg aaacatgcac 360  
 caagaccaac ttggatcatg tcttcggaga gatcaccacc aaggccaacg ttgactacga 420  
 gaagatcgtg cgtgacacct gcaggaacat cggcttcgtc tcaaacgatg tgggacttga 480  
 tgctgacaac tgcaagggtcc ttgtnaaca 509

<210> 1709  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 1709  
 gagacaggct gctaagagca ttgtggcaag tggacttgcc agaagggtgca ttgtgcaagt 60  
 gtcttatgcc attggtgtgc ctgagccttt gtctgtgttt gttgacacct atggcactgg 120  
 gaagatccat gataaggaga ttctcaacat tgtgaaggaa aactttgatt tcaggcctgg 180  
 tatgatctcc atcaaccttg atctcaagag ggggtggaaat aacagggtttt tgaagactgc 240  
 tgcctatgga cactttggaa gagaaga 267

<210> 1710  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1710

acgtcgcang cacgctgacg taagctcgga attcggctcg aggcagcaga gccctgatat 60  
 cgcccagggt gtgcacggtc acttcaccaa gcgcccagag gaggttggtg ctggtgaccn 120  
 cggtcacatg tttggctatg cactgatga aaccctgag tacatgcccc tcagccatgt 180  
 ccttgcaacc aaactcgggtg ctgcctcac cgagggttagg aaaaatggta cctgtgcttg 240  
 gctgaggcca gatggcaaga cacaagtaac tgttgagtac tacaatgaca atggtgccat 300  
 ggttccagtt cgtgtccaca 320

<210> 1711  
 <211> 330  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1711

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nnnaaaannt gacntcgcan gcacgcgtac gtaagctcgg aattcggctc gagggactgg 60
atgccgacaa ctgcaaggtc ctcgtcaaca ttgagcagca gagccctgat attgctcagg 120
gtgtacacgg ccaccttacc aaaaaacctg aagaaattgg tgctggtgac cagggtcaca 180
tgtttggtcta tgccactgat gaaaccctg aattgatgcc attgagccat gttcttgcaa 240
caaaactcgg tgctcgtctc accgagggttc gcaagaacgg tacctgccct tggctgaggc 300
ctgatgggaa gaccaagtg accgttgagt 330
```

<210> 1712

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1712

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agtngcangc acgcgtacgt aagctcggaa ttcggctcga gtgcaagttt cctatgccat 60
tggtgtgcct gagcccttgt ctgtgtttgt tgacacttat ggcactggga agatccctga 120
caaggaaatc ctcagcattg tgaaggagag ttttgacttc aggcttggca tgatctccat 180
caaccttgat ctcaagaggg gtggaaatgg caggttcttg aagactgctg catatggaca 240
ctttggcaga gatgaccctg acttcacatg ggaagtgggtg aagccactca agggggagaa 300
ggtacctgct tac 313
```

<210> 1713

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1713

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gttaactttc ccgcgccngg tcangaataa acgggtcgan ccacgcgtcc gacggatgcg 60
agaagacgac agaagggggc agcgcttgat ttgaggccag gcaagcccca ctcaaccacc 120
acacctctcc tcgttcacgc tacccttttc tgctcttctt ctacctttca agttttaaaa 180
gtataaagat ggcagagaca ttcctattta cctcagagtc ggtgaacgag ggacaccctg 240
```

acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgcctcgag caggacccag 300  
acagcaaagt tgctgcgaa acatgcacca aaaccaactt ggatcatggc ttcggagaaa 360  
tcacgaccaa ggccaacgtt gactacgaga agatagtgcg tgacacctgc angaacatcg 420  
gcttcgtctc aaatgatgtg ggactggatg ccgacaactg caaggctcctc gtcaacattg 480  
agcaac 486

<210> 1714  
<211> 474  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1714

aactttacgc tgccangtnc cggtcnaga attnacgggg ccgacccacg cgtccntacg 60  
gctgcgagaa gacgacagaa gggggcagcg cttgagacca agccccactc aaccaccaca 120  
ccactctctc tgctcttctt ctacctttca agttttttaa gtattaagat ggagagagaca 180  
ttcctattta cctcagagtc agtgaacgag ggacacctg acaagctctg cgaccaaata 240  
tccgatgctg tcctcgacgc ttgccttgaa caggacccag acagcaaggt tgctgcgaa 300  
acatgcacca agaccaactt ggatcatggc ttcggagaga tcaccaccaa ggccaacgtt 360  
gactacgana agatcgtcg tgacacctgc aggaacatcg gcttcgtctc aaacgatgtg 420  
ggacttgatg ctgacaactg caaaggctcct ttgtaaacat tgagcaacan agnc 474

<210> 1715  
<211> 382  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1715

gtcgcangca cgcgtacgta agctcgggaa ttcgggctcg agcaacagca caaagcgggt 60  
tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120  
aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcacctgac 180  
aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttggagca ggacctgac 240  
agcaagggtt cctgtgaaac ctgcaccaag accaacaatg tgatgggttt cggagagatc 300

acaaccaagg ccaacgtgga ctatgagaag attgtgcgtg acacatgcag gaacattggt 360  
 tttgtctctg atgatgttgg tc 382

<210> 1716  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1716

nntcgcangc acgcgtacgt aagctcggaa ttcggctcga gggcaccctg nacaagctct 60  
 gtgaccagat ctccgatgct gtgctcgatg catgcttga gcaggaccct gacagcaagg 120  
 ttgcctgtga aacctgcacc aagaccaaca tggatgatgg tttcggagag atcacaacca 180  
 aggccaacgt ggactatgag aagattgtgc gtgacacatg caggaacatt ggTTTTgtct 240  
 ctgatgatgt tggctctgat gctgacaact gcaaggctct cgtcaacatt gagcaacaga 300  
 gtcctgat 308

<210> 1717  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1717

gtcnnangca cgcgtacgta agctcggaa ttcggctcga ccagatctcc gatgctgtgc 60  
 tcgatgcatg cttggagcag gacctgaca gcaagggtgc ctgtgaaacc tgcaccaaga 120  
 ccaacatggt gatggTTTTc ggagagnnca caaccaaggc caacgtggac tatgagaaga 180  
 ttgtgcgtga cacatgcagg aacattggtt ttgtcnctga tgatgttggc cttgatgctg 240  
 acaactgcaa ggtcctcgtc aacattgagc aacagagtcc tgatattgct caagggtgtgc 300  
 cggccacctc ac 312

<210> 1718  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 1718

gtcgcangca cgcgtacgta agctcgggaa ttcggctcga ggcgctggtg accaggggtca 60  
catgtttggc tatgccactg atgaaacccc agaattcatg ccattgagtc atgttcttgc 120  
aaccaagctc ggtgctcgtc tcaccgaggt tcgcaagaac ggaacctgcc catggctgag 180  
gcctgatggg aagaccaag tgactgtgga gtattacaat gataatgggtg ccaggggttcc 240  
agttcgtggt cacaccgtgc taatctccac ccagcatgat gagactgtca ccaacgacga 300  
aattgcggct gacct 315

<210> 1719

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1719

ggaattcggc tcgagctggt gagtactaca atgacaatgg tgccatgggt ccagttcgtg 60  
tccacactgt cctaatttcc acacaacatn anaaggnggt gagcaatgac caaattgctg 120  
ctgaccttaa agagcatggt atcaagcctg tnantcctga gaagtacctg gatgagaaga 180  
ccatcttcna ccttaaccct tctggccggt ttgtcattgg tggccctcat ggtgatgctg 240  
gtctcatgga agaaagatca tcattgatac ctatgggtggg tggggtgctc atgggtggagg 300  
tgcttttcag gg 312

<210> 1720

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1720

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag ctcgagccga aactttccta 60  
ttcacatctg aatcagtga cggaggggcac cctgacaagc tctgtgacca gatctccgat 120  
gctgtgctcg atgcatgctt ggagcaggac cctgacagca aggttgcctg tgaaacctgc 180  
accaagacca acatggtgat ggttttcgga gagatcacia ccaaggccaa cgtggactat 240  
gagaagattg tgcgtgacac atgcaggaca ttggttttgt ctctgatgat gttgggtctg 300

atgctgacaa t 311

<210> 1721

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1721

gtcgcangca cgcnnncgtn nagctcggaa ttccggctcga gnacgagggn gcaccctgac 60  
 angctctgtg accagatctc cnatgctgtg ctccgatgcat gcttggagca ggaccctgac 120  
 agcaagggtg cctgtgaaac ctgcaccaag accaacaatgg tgatgggtttt cggagagatc 180  
 acaaccaagg ccaacgtgga ctatgagaag attgtgcgtg acacatgcag gaacattggt 240  
 cttgtctctn atgatgttgg tcttgatgct gacaactgca agtcctcgtc aacantgagc 300  
 nacagagtcc tgatattnnt ccaggng 327

<210> 1722

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1722

gtcgcngcac gcgtacgtaa gctcgggaatt cggctcgcgc aggaccctga cagcaagggtt 60  
 gcctgtgaga catgcaccaa gaccaacatg gtcattggtct tcggagagat cacaaccaag 120  
 gccaacgtag actatgaaaa gattgtccgc gacacatgcc gcgaaattgg attcatctct 180  
 gatgatgttg gtcttgatgc tgacaaatgc aagggtgttg tcaacattga gcaacagagc 240  
 ccggatatcg ccaggggtgt gcacggccat tcaccaagcg ccagaggag gttggtgccg 300  
 gtgaccag 308

<210> 1723

<211> 290

<212> DNA

<213> Glycine max

<400> 1723

tagtgccctcc ttgccagaag ttaaaatggc ccaagaaact ttctatttca catctgaatc 60



agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
 atgcttggag caggaccctg acagcaaggt tgccctgtgaa acctgcacca agaccaacat 180  
 ggtgatgggtt ttcggagaga tcacaaccaa ggccaacgtg gactatgaga agattgtgcg 240  
 tgacacatgc aggaacattg gtttgtctct gatgatgttg gtcctgatgc 290

<210> 1724  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1724

tngcatgcac gcgtacgtaa gctcgggaatt cggctcgagc aggacccaga cagcaagggtt 60  
 gcctgcgaac atgcaccaag accaacttgg tcatgggtctt cggagagatc accaccaagg 120  
 ccaacgttga ctacgagaag atcgtgctg acacctgcag gaacatcggc ttcgtctcaa 180  
 acgatgtggg acttgatgct gacaactgca aggtcccttg aaacattgag cagcagagcc 240  
 ctgatattgc ccaggggtgtg cacggccacc ttacaaaag acccgaggaa atcggtgctg 300  
 gagaccaggg tcacatgttt ggcta 325

<210> 1725  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1725

ggnnnnnnnn nttnnnnngc ccttttacgc gccaaaggtac cggtaagga attcccggnt 60  
 cgaccacgc gtcngacggc tgcgagaaga cgacagaagg gggcagcgct tgagaccaag 120  
 cccactcaa ccaccacacc actctctctg ctcttcttct acctttcaag tttttaaaagt 180  
 attaagatgg cagagacatt cctatttacc tcagagtcag tgaacgaggg acaccctgac 240  
 aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gccttgaaca ggaccagac 300  
 agcaagggttg cctgcgaaac atgcaccaag accaacttgg tcatgggtctt cggagagatc 360  
 accaccaagg ccaacgttga ctacgagaag atcgtgctg acacctgcag gaacatcggc 420  
 ttcgtctcaa acgatgtggg acttgatgct gacaactgca aggtcccttg taaacattga 480

nncagc

486

<210> 1726

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1726

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ctgaggagat tgggtgctggt gaccaagggtc atatgttcgg ctatgccact gacgagactc 120

ccgagctcat gcccttgagc catgtccttg ccacgaagct cggtgccaag ctcaccgagg 180

ttcgaagaa cgggacatgc ccttggtctga gacctgatgg caagacccaa gtcactgttg 240

agtactacaa tgacaagggt gccatggttc caatccgcgt ccacactgtg ctcatctcca 300

cacagcat 308

<210> 1727

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1727

cgctcgcatgc acgcgtacgt aagctcggaa ttcgggtcga gttttcggag agatcacaac 60

caaggccaac gtggactatg agaagattgt gcgtgacaca tgcaggaaca ttggttttgt 120

ctctgatgat gttggtcttg atgctgacaa ctgcaagggtc ctcgtaaca ttgagcaaca 180

gagtcctgat attgctcaag gtgtgcacgg ccacctcaca aanaggcctg aggagattgg 240

tgctggtgac caaggtcata tggtcggcta tgccactgac gagactcccg agctcatgcc 300

cttgagc 307

<210> 1728

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1728

acgtcgcang cacgcgtacg taagctcgga attcggctcg agnaggctgc taagagcatt 60

gtngcaagtg gacttgccag aaggtgcatt gtgcaagtnt cttatgccat tgggtgtgcct 120  
gagcctttgt ctgtgtttgt tgacacctat ggcactgna agatccatga taaggagatt 180  
ctcaacattg tgaaggaaaa ctttgatttc aggcctggta tgatctccat caaccttgat 240  
ctcaagaggg gtggaaataa caggtttttg aagactgctg cctatggaca ctttgaaga 300  
gaagacctga ctt 313

<210> 1729  
<211> 320  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1729

agtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gatggtcttc ggagagatca 60  
caaccaaggc caacgtagac tatgaaaaga ttgtnccgcg acacatgccg cgaaattgga 120  
ttcatctctg atgatgttgg tcttgatgct gacaaatgca aggtgttggc caacattgag 180  
caacagagcc cggatatcgc ccagggtgtg cacggccact tgcaccaagc gccagagga 240  
ggttggtgct ggtgaccagg gtcacatgtt tgggtatgcc accgatgaaa cccccgagta 300  
catgcccctc agccatgtcc 320

<210> 1730  
<211> 361  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1730

gttaggttct gcacgctctg cttccagcga gtgttctttc ttcgtttcaa caccttaatt 60  
tgcatnacgc tgctttcttn ngacntgagg aatgggcaca agaaaccttt tctattcaca 120  
tctgaatctg taaacgaggg ttcaccccga caagctgtgc gaccagatct ctgatgcagt 180  
gctcgatgcg tgccttgaac aggacctga cagcaagggt gcctgtgaga catgcaccaa 240  
gaccaacatg gtcatggtct ttgggagaga tcacaaccaa ggccaacgta gactatgaga 300  
agattgtccg tgacacatgc cgcgaaattg gattcatctc tgatgatgtt ggtcttgatg 360  
c 361

<210> 1731  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1731

gtcgcacatgca cgcgtacgta agctcgggaa ttcggctcga gtgcatgctt gggagcagga 60  
 ccctgacagc aaggtttgcct gtgaaacctg caccaagacc aacatgggtga tggttttcgg 120  
 agtcnatcac aaccaaggcc aacgtggact atgagaagat tgtgcgtgac acatgcacga 180  
 acattggttt tgtctctgat gatgttggtc ttgatgctgn caactgcaag gtcctcgtca 240  
 acattgagca acagagtcct gatattgctc aaggtgtgca cggccacctc acaaagaggc 300  
 ctgaggagat tgggtgctggt gaccaan 327

<210> 1732  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1732

cgtcgcangc acgcgtacgt aagctcggaa ttcggctcga gtaggagggc aattgtgcaa 60  
 gtttcctatg ccattgggtgt gcctgagccc ttgtctgtgt ttgttgacac ttatggcact 120  
 gggaagatcc ctgacaagga aatcctcagc attgtgaagg agagtittga cttcaggcct 180  
 ggcatgatct ccatcaacct tgatctcaag aggggtggaa atggcaggtt cttgaagact 240  
 gctgcatatg ggacactttg gcagagatga ncctgacttc acatgggaag tggatgaagcc 300  
 act 303

<210> 1733  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1733

ngtcgcangc acgcgtacgt aagctcggaa ttcggctcga gattgatacc tatgggtgggt 60

ggggtgctca tgggtggaggt gccttttcag ggaaggaccc taaccaaggt tgacagaagt 120  
 ggtgcctata tcgtgaggca ggctgcaaag agtgttgtgg caaatggcct tgccagaagg 180  
 tgcattgtcc aagtttccta tgccattgggt gtccctgagc ctttgtcagt gtttgtggac 240  
 acttatggaa ctgggaagat tcctgacaag gagattcttc aaattgtgaa ggagaatttc 300  
 gacttcagac ctggaatgat c 321

<210> 1734  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1734

gtcgcnnnga cgcgtacgta agctcggaa tcggctcgag ggacgagacc ccagaattga 60  
 tgccattgag tcatgttctt gcaactaaac tcggtgctcg tctcaccgag gttcgcaaga 120  
 acggaacctg cccatggttg aggcctgatg ggaagacca agtgactgtt gagtattaca 180  
 atgacaacgg tgccatgggt ccagttcgtg tccacactgt gcttatctcc acccaacatg 240  
 atgagactgt gaccaacgac gaaattgcag ctgacctcaa ggagcatgtg atcaagccgg 300  
 tgatcccga 310

<210> 1735  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1735

ngtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gtggatcatgg tctttggaga 60  
 gatcacaacc aaggccaacg tagactntga gaagattgtc cgtgacacat gccgcgaaat 120  
 tggattcatc tctgatgatg ttggtcttga tgctgacaaa tgcaaggtgt tggatcaacat 180  
 tgagcagcag agccctgata tcgcccaggg tgtgcacggt cacttcacca agcgcgccaga 240  
 ggagggttgg gctggtgacc agggtcacat gtttggctat gccactga 288

<210> 1736  
 <211> 299  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1736

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gtcgcangca cgcgtacgtn agctcggntt tcggctcgag ntcagtgaac gaggggcacc 60
ctgacaagct ctgngaccag atctccgatg ctgtgctcga tgcattgcttg gagcaggacc 120
ctgacagcaa ggttgccctgt naaacctgca ccaagaccaa catggtgatg gttttcggag 180
agatcacaac caaggccaac gtggactatg agaagattgt gcgtgacaca tgcaggaaca 240
ttggttttgt ctctgatgat gttggtcttg atgctgacaa ctgcaagggtc ctcnncaan 299
```

<210> 1737

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1737

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ngtcgcatgc acgcgtacgt aagctcggaa ttcggctcga ggctgtcat tcctgagaag 60
taccttgatg agaagaccat ctccacctt aacccttctg gccgttttgt cattggtggc 120
cctcatggtg atgctggtct cactggaaga aagatcatca ttgataccta tggaggctgg 180
ggtgctcatg gtggagggtgc cttttcaggg aaggacccta ccaagggtga cagaagtggc 240
gcctatattg taaggcaggc tgcaaagagt gtcgtggcaa atggccttgc tagaagggtgc 300
ttgtgcaagt ttccctatgc catggtgc 328
```

<210> 1738

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1738

```
tcncgcgtac gtnagctcgg aattcggctc gagaccaaga ccaacatggt gatggttttc 60
ggagagatca caaccaaggc caacgtggac tatgagaaga ttgtgcgtga cacatgcagg 120
aacattggtt ttgtctctga tgatgttggt cttgatgctg acaactgcaa ggtcctcgtc 180
aacattgagc aacagagtcc tgatattgct caagggtgtgc acggccacct tcacaaagag 240
gcctgaggag attggtgctg gtgaccaagg tcatatgttc ggctatgcc actgacgaga 300
```

ctccccgagct cagcc

315

<210> 1739

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1739

cccngcacgc gtacgtaagc tcggaattcg gctcgagcga tacttatgga ggatgggggtg 60

ctcatgggtgg tgggtgctttc tccgggaagg accctaccaa ggttgatagg agtgggtgctt 120

acattgtgag acaggctgct aagagcattg tggcaagtgg acttgccaga aggtgcattg 180

tgcaagtgtc ttatgccatt ggtgtgcctg agcctttgtc tgtgtttgtt gacacctatg 240

gcactgggaa gatccatgat aaggagattc tcaacattgt gaaggaaaac tttgattcag 300

gcc 303

<210> 1740

<211> 299

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1740

tctntgnanc gtagtaagct cggaattcgg ctcgagctga tattgcccag ggtgtgcacg 60

gccaccttac caaaagaccc gaggaatcg gtgctggaga ccagggtcac atgtttggct 120

atgccacgga cgagacccca gaattgatgc cattgagtc tgttcttgca actaaaactcg 180

gtgctcgtct caccgagggt cgcaagaacg gaacctgccc atgggtgagg cctgatggga 240

agacccaagt gactgttgag tattacaatg acaacggtgc catggttcca gttcgtgtc 299

<210> 1741

<211> 263

<212> DNA

<213> Glycine max

<400> 1741

cattgagcaa cagagtcctg atattgctca aggtgtgcac ggccacctca caaagaggcc 60

tgaggagatt ggtgctgggtg accaaggctca tatgttcggc tatgccactg acgagactcc 120

cgagctcatg cccttgagcc atgtccttgc cacgaagctc ggtgccaagc tcaccgaggt 180  
tcggaagaac gggacatgcc cttggctgag acctgatggc aagaccaag tcactgttga 240  
gtactacaat gacaagggtg cca 263

<210> 1742  
<211> 299  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1742

gtngangcgt acgtaagctc ggaattcggc tcgaggcacg gccacctcac aaagaggcct 60  
gaggagattg gtgctggtga ccaaggatcat atgttcggct atgccactga cgagactccc 120  
gagctcatgc ccttgagcca tgtccttgcc acgaagctcg gtgccaagct caccgaggtt 180  
cggaagaacg ggacatgccc ttggctgaga cctgatggca agaccaagt cactgttgag 240  
tactacaatg acaagggtgc catggttcca atccgcgtcc aactgtgct catctccac 299

<210> 1743  
<211> 254  
<212> DNA  
<213> Glycine max  
<400> 1743

ctcaccgagg ttcgcaagaa cggtagctgc ccttggctga ggcctgatgg gaagacccaa 60  
gtgaccgttg agtattacaa tgacaatggg gccagggttc ctattcgtgt acacaccgtg 120  
ctaattctcca cccaacacga cgagactgtc accaatgacg aaattgctgc tgacctcaaa 180  
gagcatgtga tcaagcctgt gatcccagag aagtaccttg atgagaagac cattttccac 240  
ttgaaccctt cagg 254

<210> 1744  
<211> 268  
<212> DNA  
<213> Glycine max  
<400> 1744

acagagtcct gatattgctc aagggtgtgca cgccacctc acaaagaggc ctgaggagat 60



tgggtgctggt gaccaagggtc atatgttcgg ctatgccact gacgagactc ccgagctcat 120  
 gcccttgagc catgtccttg ccacgaagct cgggtgccaag ctcaccgagg ttcggaagaa 180  
 cgggacatgc ccttggtgta gacctgatgg caagacccaa gtcactgttg agtactacaa 240  
 tgacaagggt gccatgggtc caatccgc 268

<210> 1745  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1745

gca'cgctac gtaagctcgg aattcggctc gagcacggac gagaccccag aattgatgcc 60  
 attgagtcac gttcttgcaa ctaaactcgg tgctcgtctc accgagggtc gcaagaacgg 120  
 aacctgcca tggttgaggc ctgatgggaa gacccaagtg actgttgagt attacaatga 180  
 caacggtgcc atggttccag ttcgtgncca cactgtgctt atctccaccc aacatgatga 240  
 gactgtgacc aacgacgaaa ttgcagctga cctcaaggag catgtgatca agccggtgat 300  
 cccgg 305

<210> 1746  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1746

antcgcangc acgcgtacgt aagctcggaa ttcggctcga ggtcctcgac gcttgcccttg 60  
 aacaggaccc agacagcaag gttgcctgcg aaacatgcac caagaccaac ttggtcatgg 120  
 tcttcggaga gatcaccacc aaggccaacg ttgactacga gaagatcgtg cgtgacacct 180  
 gcaggaacat cggcttcgtc tcaaacgatg tgggacttga tgctgacaac tgcaagggtcc 240  
 ttgtaaacat tgagcagcag agccctgata ttgccagggt tgtgcacggc caccttacca 300  
 aaagacccga ggaaat 316

<210> 1747  
 <211> 306  
 <212> DNA

<213> Glycine max

<400> 1747

```
gtcgcatgca cgcgtacgta agctcggaaat tcggctcgag ctcaccggcc gcaagatcat   60
catcgacacc tatggaggat ggggtgcaca tgggtggtggt gccttctctg ggaaggatcc  120
taccaagggt gataggagt gtgcctacat tgtgaggcaa gctgcaaaga gcattgttgc   180
aaatggactt gctaggaggg caattgtgca agtttcctat gccattggtg tgcctgagcc  240
cttgtctgtg tttgttgaca cttatggcac tgggaagatc cctgacaagg aaatcctcag   300
cattgt                                           306
```

<210> 1748

<211> 269

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1748

```
gtgcgtgaca catgcaggaa cattgggtttt gtctctgatg atgttgggtct tgatgctgac   60
aactgcaagg tcctcgtaaa cattgagcaa cagagtcctg atattgctca aggtgtgcac  120
ggccacctca caaagaggcc nnaggagatt ggtgctggtg accaagggtca tatgttcggc   180
tatgccactg acgagactcc cgagctcatg cccttgagcc atgtccttgc cacgaagctc   240
ggtgccaagc tcaccgaggt tcggaagaa                                           269
```

<210> 1749

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1749

```
tcgcangcac ncgtacgtaa gctcgggaatt cggctcgaga cagagtcctg atattgctca   60
aggtgtgcac ggccacctca caaagaggcc tgaggagatt ggtgctggtg accaagggtca  120
tatgttcggc tatgccactg acgagactcc cgagctcatg cccttgagcc atgtccttcc   180
acgaagctcg gtgccaagct caccgaggtt cggaagaacg ggacatgccc ttggctgaga   240
cctgatggca agacccaagt cactgttgag tactacaatg acaaggggtgc catggttcca   300
```

atccgcgtcc a

311

<210> 1750  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1750

gcangcacgc gtacgtaagc tcggaattcg gctcgangtt cttgcaacta aactcgggtgc 60  
tcgtctcacc gaggttcgca agaacggaac ctgcccattg ttgaggcctg atgggaagac 120  
ccaagtgact gttgagtatt acaatgacaa cggtgccatg gttccagttc gtgtccacac 180  
tgtgcttata tccacccaac atgatgagac tgtgaccaac gacgaaattg cagtgcctc 240  
aaggagcatg tgatcaagcc ggtgatcccg gagaagtacc ttgatgagaa gaccattttc 300  
cacttgaa 308

<210> 1751  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1751

aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 60  
cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 120  
accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 180  
accctgacag caagggttgc tgtgaaacct gcaccaagac caacatggtg atggttttcg 240  
gagagatcac aaccaaggcc aacgtggact atgagaagat tgtgcgtgac acatgcaagg 300  
aacattggnt tttgtctctg atgaatgttg gncttgatgc tgacaactgc aaggnccccc 360  
tcaaanattg gnnacaaaa ntccggaana ttgc 394

<210> 1752  
<211> 326  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1752

cangcacgcg tacgtaagct cggaattcgg ctcgagggac cctaccaagg ttgacagaag 60  
 tggcgcctat atcgtgagggc aggctgcaaa gagtggtgtg gcaaatggcc ttgccagaag 120  
 gtgcattgtc caagtttcct atgccattgg tgtccctgag cccttgtcag tgtttgtgga 180  
 cacttatgga actgggaaga ttcctgacaa ggagattctt caaattgtga aggagaattt 240  
 cgacttcaga cctggaatga tcaccattaa cttggacctt aagaggggtg gccataggtt 300  
 cctcaagaca gctgcttatg gacact 326

<210> 1753  
 <211> 536  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1753

gnnggnngt gnnttcntnn nntntacnn tttggcntgc cgtaccggtc cggaattccc 60  
 gggcgcaccc acgcgtccgg caagccccac tcaaccacca cacctcttct cgttcacgct 120  
 acccctttct gctcttcttc tacctttcaa gttttaaaag tataaagatg gcagagacat 180  
 tcctatttac ctgagagtcg gtgaacgagg gacaccctga caagctctgc gaccaaattct 240  
 ccgatgctgt cctcgacgct tgcctcgagc aggaccacaga cagcaaagtt gcctgcgaaa 300  
 catgcaccaa aaccaacttg gtcattggtct tcggagaaat cacgaccaag gccaacgttg 360  
 actacgagaa gatagtgcgt gacacctgca ggaacatcgg cttcgtctca aatgatgtgg 420  
 gactggatgc cgacaactgc aaggctctgt caacattgac agcagaccct gatattggtc 480  
 aagggtggtc acgggcacct taccaaaaaa anctggaaga aattgggggtc tggnga 536

<210> 1754  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1754

cacgcgtacg taagctcgga attcggctcg agaccaaggt tgataggagt ggtgcttaca 60  
 ttgtgagaca ggctgctaag agcattgtgg caagtggact agccagaagg tgcattgtgc 120  
 aagtgtctta tgccattggt gtgcccagac ctttgtctgt ctttgttgac acctatggca 180

ccgggaagat ccatgataag gagattctca acattgtgaa ggagaacttt gatttcaggc 240  
 ccggtatgat ctccatcaac ctgntctca agaggggtgg gaataa 286

<210> 1755  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 1755

tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
 agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
 atgcttggag caggaccctg acagcaaggt tgctgtgaa acctgcacca agaccaacat 180  
 ggtgatgggt ttcggagaga tcacaaccaa ggccaacgtg gactatgaga agattgtgcg 240  
 tgacacatgc aggaacattg gttttgtctc tgatga 276

<210> 1756  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 1756

gtcgcgatgca cgcgtacgta agctcggaaat tcggctcgag ggccaacgta gactatgaga 60  
 agattgtccg tgacacatgc cgcgaaattg gattcatctc tgatgatggt ggtcttgatg 120  
 ctgacaaatg caaggtgttg gtcaacattg agcagcagag ccctgatatc gccaggggtg 180  
 tgcacggtca cttcaccaag cgcccagagg aggttggtgc tggtgaccag ggtcacatgt 240  
 ttgggctatg ccatgatgaa acccctgagt acatgccct cagccatgtc cttgcaacca 300

<210> 1757  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1757

nngtcgcang cacgcgtacg taagctcgga attcggctcg agccctgata tcgcccaggg 60  
 tgtgcacggt cacttcacca agcgcacaga ggaggttggt gctggtgacc agggtcacat 120

gtttggctat gccactgatg aaacccctga gtacatgccc ctcagccatg tccttgcaac 180  
 caaaactcggg gctcgccctca ccgagggttag gaaaaatggg acctgtgctt ggctgaggcc 240  
 agatggcaag acacaagtaa ctgttgagta ctacaatgac aatggtgcca tggttccagt 300  
 tcgt 304

<210> 1758  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1758

ngtcgcangc acgcgtacgt aagctcggaa ttcggctcga gctgcaaaga gcattgttgc 60  
 aaatggactt gctaggaggg caattgngca agtttcctat gccattgggtg tgcctgagcc 120  
 cttgtctgtg tttgttgaca cttatgggca ctgggaagat ccctgacaag gaaatcctca 180  
 gcattgtgaa ggagagtttt gacttcaggc ctggcatgat ctccatcaac cttgatctca 240  
 agaggggtgg aaatggcagg ttcttgaaga ctgctgcata tggacacttt ggcagagatg 300  
 accctgact 309

<210> 1759  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1759

ncacgtcgan gcacgcgtac gtaagctcgg aattcggctc gaggagaaga ccatcttcca 60  
 ccttaaccct tctggccgtt ttgtcattgg tggccctcat ggtgatgctg gtctcactgg 120  
 aagaaagatc atcattgata cctatggtgg gtgggggtgct catggtggag gtgccttttc 180  
 aggggaaggac cctaccaagg ttgacagaag tgggtgcctat atcgtgaggc aggtgcaaaa 240  
 gagtgttgtg gcaaattggc ttgccagaag gtgcatgtcc aagtttccta tgccattggg 300  
 gtccctgagc cctgtcagtg 320

<210> 1760  
 <211> 295  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1760

```
gtcgcangca cgcgtacgta agctcggaa tccgctcgag gcgtgacaca tgcaggaaca 60
ttggttttgt ctctgatgat gttggctcttg atgctgacaa ctgcaaggct ctcgtcaaca 120
ttgagcaaca gagtcctgat attgctcaag gtgtgcacgg ccacctcaca aagaggcctg 180
aggagattgg tgctggtgac caaggtcata tgttcggcta tgccactgac gagactcccg 240
agctcatgcc cttgagccat gtccttgcca cgaagctcgg tgccaagctc accgn 295
```

<210> 1761

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1761

```
ngtctangc acgcgtacgt aagctcggaa ttcggctcga gggtaacat tgagcaacag 60
agccccgata tcgcccaggg tgtgcacggc cacttcacca agcgcccaga ggaggttggt 120
gctggtgacc agggtcacat gtttgggtat gccaccgatg aaacccccga gtacatgccc 180
ctcagccatg tccttgcaac caaacttggt gctcgccctca cagagggttag gaagaatggc 240
acctgtgctt gggtgaggcc agatggtaag acacaagtaa ccgtcgagta ctacaat 297
```

<210> 1762

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1762

```
tcgcatncac gcgtacgtaa gctcgggaatt cggctcgagc atcattgata cctatggtgg 60
ctgggggtgct catggtggag gtgccttttc agggaaggac cctaccaagg ttgacagaag 120
tggtgcctat attgtaaggc aggctgcaaa gagtgtcgtg gcaaatggcc ttgctagaag 180
gtgcattgtg caagtttcct atgccattgg tgtccctgag cccttgtcag tgtttgtgga 240
cacttatgga actgggaaga ttcctgacaa ggagattctg caaattgtga aggagaa 297
```

<210> 1763  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1763

angangacgt cgctgcacgc gtacgtaagc tcggaattcg gctcgaggga agaacgggac 60  
 atgcccttgg ctgagacctg atggcaagac ccaagtcact gttgagtact acaatgacaa 120  
 ggggtgccatg gttccaatcc gcgtccacac tgtgctcatc tccacacagc atgatgagnc 180  
 tgtcacaaat gatgagattg cagctgatct taaagaacac gtgattaagc ctgtgattcc 240  
 tgagaagtac cttgatgaga agaccatttt ccatttgaac ctttctggca ggtttgtcat 300  
 tgg 303

<210> 1764  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1764

gggnaantct acgcgnncag ttctggtcag agccattccc gggnaanaacc cacgcgnccn 60  
 tacggctgcg agaaagacga cagaaggggg caacgctttg attttgaggg caaggcaaag 120  
 cccactcaa accaacacac ctctcctccg ttcacgctac cttttctgct cttcttctac 180  
 ctttcaagtt ttaaaaagta taaagatggc agagacattc ctatttacct cagagtcggt 240  
 gaacgagggga caccctgaca agctctgcga ccaaactctcc gatgctgtcc tcgacgcttg 300  
 cctcgagcag gaccagaca gcaaagttgc ctgcgaaaca tgcacaaaaa ccaacttggt 360  
 catggtcttc ggagaaatca cgaccaaggc caacgttgac tacgagaaga tagtgcgatga 420  
 cacctgcagg aacatcggtc tcgtctcaaa tgatgtggga ctggatgccg acaactgcaa 480  
 aggtcctcgt ca 492

<210> 1765  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 1765

acgtcgcang cacgcgtacg taagctcgga attcggctcg aggtgccttt tcaggaagg 60  
accctaccaa ggttgacaga agtggcgctt atatcgtgag gcaggctgca aagagtgttg 120  
tggcaaatgg ccttgccaga aggtgcattg tccaagtttc ctatgccatt ggtgtccctg 180  
agcccttgtc agtgtttgtg gacacttatg gaactgggaa gattcctgac aaggagattc 240  
ttcaaattgt gaaggagaat ttcgacttca gacctggaat gatcaccatt aactt 295

<210> 1766

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1766

agtcgcangc acgcgtacgt aagctcgga ttcggctcga gaagctctgt gaccagatct 60  
ccgatgctgt gctcgaatgca tgcttgagc aggaccctga cagcaagggt gcctgtgaaa 120  
cctgcaccaa gaccaacatg gtgatggttt tcggagagat cacaaccaag gccaacgtgg 180  
actatgagaa gattgtgcgt gacacatgca ggaacattgg ttttgtctct gatgatgtta 240  
ntcttgatgc tgacaactgc aaggctcctcg tcaacattga gcaacagagt 290

<210> 1767

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1767

nagtcnncng aacgcgttng taagctcggg anttcggctc gangtgctca tgggtggangn 60  
gccttttcag ggaaggaccc taccaagggt gacagaagtg gtgcctatat cgtgaggcag 120  
gctgcaaaga gtgttgtggc aaatggcctt gccagaagggt gcattgtcca agtttcctat 180  
gccattggtg tccctgagcc ctgtgcagtg tttgtggaca cttatggaac tgggaagatt 240  
cctgacaagg agattcttca aattgtgaag gagaatttcg acttcagacc tggaatgatc 300

<210> 1768

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1768

```
gcagtgtacg tnagctcgga attcggctcg agcattggtg tgcctgagcc cttgtctgtg 60
tttgttgaca cttatggcac tgggaagatc cctgacaagg aaatcctcag cattgtgaag 120
gagagttttg acttcaggcc tggcatgatc tccatcaacc ttgatctcaa gaggggtgga 180
aatggcaggt tcttgaagac tgcngcatat ggacactttg gcagagatga ccctgacttc 240
acatgggaag tgggtgaagcc actcaagggg gaaaagggtac tgcttaacta aaaggggttc 300
caacactctt ggccaangga ttttgcc 327
```

<210> 1769

<211> 322

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1769

```
gcgtacgnaa gctcgggaatt cggctcgaga atggacttgc taggaggggca attgtgcagt 60
ttcctatgcc attggtgtgc ctgagccctt gtctgtgttt gttgacactt atggcactgg 120
gaagatccct gacaaggaaa tcctcagcat tgtgaaggag agttttgact tcaggcctgg 180
catgatctcc atnaaccttg atctcaagag ggggtggaaat ggcaggttct tgaagactgc 240
tgcatatgga cactttggca gagatgaccc tgacttcaca tgggaagtgg tgaagccatc 300
aagggggaga agacctgctt aa 322
```

<210> 1770

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1770

```
gnncgnncgn aagctcggaa ttcggctcga gngccaagct caccgaggtt cggaagaacg 60
ggacatgccc ttggctgaga cctgatggca agacccaagt cactgttgag tactacaatg 120
acaaggggtgc catggttcca atccgcgtcc aactgtgct catctccaca cagcatgang 180
agnctgtcac aaatgatgag attgcagctg atcttaaaga acacgnnatt aagcctgtna 240
```

tncnganaa gtnccttnat gagaagacca ttttccattt gaacccttc 289

<210> 1771  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1771

nnngcntnan gtagcgnacg taagctcgga attcggctcg agggaagaac gggacatgcc 60  
 cttggctgag acctgatggc aagaccaag tcaactgttg gtactacaat gacaaggggtg 120  
 ccatggttcc aatccgcgtc cacactgtgc tcatctccac acagcatgat gagactgtca 180  
 caaatgatga gattgcagct gatcttaaag aacacgtgat taagcctgtg attcctgaga 240  
 agtaccttga tgagaagacc attttccatt tgaacccttc tggcagggtt gtcattg 297

<210> 1772  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1772

catgcaccaa gaccaacatg gtcatggtct ttggagagat cnntaccaag gccaacgtag 60  
 actatgagaa gattgtccgt gacacatgcc gcgaaattgg attcatctct gatgatgttg 120  
 gtcttgatgc tgacaatgca aggtgttggt caacattgag cagcagagcc ctgatatcgc 180  
 ccagggtgtg cacgggtcact tcaccaagcg cccagaggag gttggtgctg gtgaccaggg 240  
 tcacatgttt ggctatgcca 260

<210> 1773  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1773

ccnncccca ccnctacn aaagctcgga attcggctcg aggttcggct atgccactga 60  
 cgagactccc gagctcatgc ncttgagcca tgtccttgcc acgaagctnc ggtgccaaagc 120

tcaccgaggt tcggaanaac gggacatgcc cttggctgag acctgatggc aagacccaag 180  
 tcaactgttgga gtactacaat gacaagggtg ccatggttcc aatccgcgtc cacactgtgc 240  
 tcatctccac acagcatgat gagactgtca caaatgatga gattgcagtg atcttaaaga 300  
 acacgtgatt aagcctgtga ttinctgagaa gtaccttg 338

<210> 1774  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1774

tnngnangcac gcgtacgnaa gctcgggaatt cggctcgaga actttcctat tcacatctga 60  
 atcagtgaaac gagggggcacc ctgacaagct cctgtgacca gatctccgat gctgtgctcg 120  
 atgcatgctt ggagcaggac cctgacagca aggttgccctg tgaaacctgc accaagacca 180  
 acatgggtgat ggttnccgga gagatcacaa ccaaggccaa cgtggactat gagaagattg 240  
 tgcgtgacac atgcaggaac attggttttg tctctgatga tgttggtctt gatg 294

<210> 1775  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1775

gtcgcgatgca cncgtacgta agctcgggaa ttcggctcga gtgtaaacga aggtcaccccc 60  
 gacaagctgt gcgaccagat ctctgatgca gtgctcgatg ngtgcnttga acaggaccct 120  
 gacagcaagg ttgcntgtga gacatgcacc aagaccaaca tggtcatggc ctttgagag 180  
 atcacaacca aggccaaacgt agactatgag aagattgtcc gtgacacatg ccgcgaaatt 240  
 gggattcatc tctgggtggtg ttgggtcttga tinctgacaat gcaagggtgnt ggtcaaacaat 300  
 tgagcagcag agccctg 317

<210> 1776  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1776

```
gtcgcangca cgcgtacgta agctcgggaat tcggctcgag gaccattttc catttgaacc 60
cttctggcag gtttgtcagc ggagggccgc atggcgatgc tggctcacc ggccgcaaga 120
tcatcatcga cacctatgga ggatgggggtg cacatgggtg tggcgccttc tctgggaagg 180
atcctaccaa ggttgatagg agtgggtgcct acattgtgag gcaagctgca aagagcattg 240
ttgcaaatgg acttgctagg aggcaattgt gcaagtttcc tatgccattg gtgtgcctga 300
gcccttgtc , 309
```

<210> 1777  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1777

```
gtcgcacatgca cgcgtacgta agctcgggaat tcggctcgag gcagggaccc agacagcaaa 60
gttgccctgcg aaacatgcac caaaaccaac ttggatcatgg tcttncggag aaatcacgac 120
caaggccaac gttgactacg agaagatagt gcgtgacacc tgcaggaaca tcggcttcgt 180
ctcaaatgat gtgggactgg atgccgacaa ctgcaaggtc ctgctcaaca ttgagcagca 240
gagccctgat attgctcagg gtgtacacgg ccaccttacc aaaaaacctg aagaaattgg 300
tgctgggtgac cagggtcaca tgtttggt 329
```

<210> 1778  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1778

```
gaggnnnnna gggntnntnn tatgaancna nggaactttt nngcntgccc gtaccgggtcc 60
ggattccccg gtcgaccac gcgtccgtac ggctgcggaa gacgacagaa gggggcagcg 120
cttgatttga ggccaggcaa gccccactca accaccacac ctctcctcgt tcacgtacc 180
cctttctgct cttcttctac ctttcaagtt ttaaaagtat aaagatggca gagacattcc 240
tatttacctc agagtcggtg aacgagggac accctgacaa gctctgacgac caaatctccg 300
```

atgctgtcct cgacgcttgc ctcgagcagg acccagacag caaagttgcc tgcgaaacat 360  
gcacaaaaac caacttgggtc atggtcttcg gagaaatcac gaccaaggcc aacgttgact 420  
acgagaagat agtgcgtgac acctgcagga acatcggcctt cgtctcaaata gatgtgggac 480  
tggatgcccg acaactgcaa ggtcctcgtn acattgac 518

<210> 1779  
<211> 293  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1779

gtcgcangca cgcgtacgta agctcggaaat tcngctcgag ntgagcaatg accaaaattgc 60  
tgctgacctt aaagagcatg ttattaagcc tgtcattcct gagaagtacc tggatgagaa 120  
gaccatcttc caccttaacc cttctggccg ttttgtcatt ggtggccctc atggtgatgc 180  
tgggtctcact ggaagaaaaga tcatcattga tacctatggt ggggtggggtg ctcattggtg 240  
aggtgccttt tcagggaagg accctaccaa ggttgacaga agtgggtgcct ata 293

<210> 1780  
<211> 269  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1780

cgagggacac cctgataagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct 60  
cgaacaggac ccagacagca aggttgacctg cgaaacatgc accaagacca acttggtcat 120  
ggtcttcgga gagatcacca ccaaggccaa cgttgcatac gagaagatcg tgcgtgacac 180  
ctgcaggagc atcggttca tctcanacga tgtgggactt gatgctgaca actgcaaggt 240  
ccttgtnaac attgagcagc ngagccctg 269

<210> 1781  
<211> 287  
<212> DNA  
<213> Glycine max  
<400> 1781

tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagg tggggtgctc atgggtggagg 60  
 tgccttttca gggaaggacc ctaccaaggt tgacagaagt ggtgcctata tcgtgaggca 120  
 ggctgcaaaag agtgttgtgg caaatggcct tgccagaagg tgcatgtgcc aagtttccta 180  
 tgccattgggt gtccctgagc ccttgtcagt gtttgtggac acttatggaa ctgggaagat 240  
 tcctgacaag gagattcttc aaattgtgaa ggagaatttc gacttca 287

<210> 1782  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1782

cgcngcacgc gtacgtnagc tcggaattcg gctcgaggca cggccacctc acaaagaggc 60  
 ctgaggagat tgggtgctggg gaccaaggct atatgttcgg ctatgccact gacgagactc 120  
 ccgagctcat gcccttgagc catgtccttg ccacgaagct cggtgccaag ctcaccngg 180  
 ttcggaanaa cgggacatgn ccttggctga nacctgatgg caagacncaa gtcactgttg 240  
 agtactacaa tgacaagggt gccatggttc caatccgcgt ccacactgtg ctcatctcca 300  
 c 301

<210> 1783  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1783

nagtcgcang cacgcgtacg taagctcgga attcggtcgc agccagaatt catgccattg 60  
 agtcatgttc ttgcaaccaa gctcgggtgct cgtctcaccg aggttcgcaa gaacggaacc 120  
 tgcccatggc tgaggcctga tgggaagacc caagtgactg tggagtatta caatgataat 180  
 ggtgccaggg ttccagttcg tgtncacacc gtgctaattc ccaccagca tgatgagact 240  
 gtcaccaacg acgaaattgc ggctgacctc aaggagcatg tgatcaagcc tgtgatcccg 300  
 gagaa 305

<210> 1784  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1784  
  
 gtcgctgcac gcgtacgtna gctcgggaatt cggctcgagt gatgatgttg gtcttgatgc 60  
 tgacaaatgc aaggtgttgg tcaacattga gcagcagagc cctgatatcg cccagggtgt 120  
 gcacggtcac ttcaccaagc gcccagagga ggttgggtgct ggtgaccagg gtcacatgtt 180  
 tggctatgcc actgatgaaa cccctgagta catgcccctc agccatgtcc ttgcaaccaa 240  
 actcgggtgct cgcctcaccg aggttaggaa aaatgggtacc tgtgtctt 287

<210> 1785  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1785  
  
 nancacgtcg cangcacgcg tacgtaagct cgggaattcg gctcgagagg gtcacatgtt 60  
 tggctatgcc actgatgaaa cccctgagta catgcccctc agccatgtcc ttgcaaccaa 120  
 actcgggtgct cgcctcaccg aggttaggaa aaatgggtacc tgtgtcttggc tgaggccaga 180  
 tggcaagaca caagtaactg ttgagtacta caatgacaat ggtgccatgg ttccagttcg 240  
 tgtccacact gtcctaattt ccaccaaca tgatgagnct gtgagcaatn accaaattgc 300  
 tgctgacctt 310

<210> 1786  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1786  
  
 gtcgcangca cgcgtacgta agctcggaat tcggctcgag ntcacaacca aggccaacgt 60  
 agactatgaa aagattgtcc gcgacacatg ccgcgaaatt ggattcatct ctgatgatgt 120  
 tggctcttgat gctgacaaat gcaagggtgtt ggtcaacatt gagcaacaga gcccgatat 180



cgcccaggggt gtgcacggcc acttcaccaa gcgcccagag gaggttggtg ctggtgacca 240  
gggtcacatg tttgggtatg ccaccgatga aacccccgag tacatgc 287

<210> 1787  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 1787

gtcgcacatgca cgcgtacgta agctcgggaat tcggctcgag gtcttgatgc tgacaaactgc 60  
aaggtcctcg tcaacattga gcaacagagt cctgatattg ctcaaggtgt gcacggccac 120  
ctcaciaaaga ggcctgagga gattggtgct ggtgaccaag gtcatatgtt cggctatgcc 180  
actgacgaga ctcccagagct catgcccttg agccatgtcc ttgccacgaa gctcggtgcc 240  
aagctcaccg aggttcggaa gaacggggaca tgcccttggc tgagacctga tggca 295

<210> 1788  
<211> 321  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1788

tcgcacgcac gcgtacgtaa gctcgggaatt cggtcgcagn agatggcaga gacattccta 60  
tttacctcag antcggtgaa cgaggggacac cctgacaagc tctgcgacca aatctccgat 120  
gctgtcctcg acgcttgccct cgagcaggac ccagacagca aagttgcctg cgaaacatgc 180  
acaaaaacca acttggtcat ggtcttcgga gaaatcacga ccaaggccaa cgttgactac 240  
gagaagatag tgcgtgacac ctgcaggaac atcggtctcg tctcaaatga ngtgggactg 300  
gatgccgaca actgcaagtc t 321

<210> 1789  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 1789

tagtgccctcc ttgccagaag ttaaaatggc ccaagaaact ttctatttca catctgaatc 60  
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120

atgcttggag caggaccctg acagcaaggt tgcctgtgaa acctgcacca agaccaacat 180  
 ggtgatggtt ttcggagaga tcacaaccaa ggccaacgtg gactatgaga agattgtgcg 240  
 tgacacatgc aggaacattg gttttgtctc 270

<210> 1790  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1790

tngatanacg cgtacgtnag ctcggaattc ggctcgaggg aggttggtgc tggtgaccag 60  
 ggtcacatgt ttgggctatg ccaactgatga aaccctgag tacatgcccc tcagccatgt 120  
 cttgcaacca aactcgggtgc tencctcacc gaggttagga aaaatggtac ctgtgcttgg 180  
 ctgaggccag atggcaagac acaagtaact gttgagtact acaatgacaa tggtgccatg 240  
 gttccagttc gtgtccacat gtcctaattt ccaccaaca tgatgagcct gtgagcaatg 300  
 accaaattgc tgctgacctt aaagagcatg tta 333

<210> 1791  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1791

caatggtgcc atggttccag ttcgtgtcca cactgtccta atttccaccc aacatgatga 60  
 nacctgtgag caatgaccaa attgctgctg accttaaaga gcatgttatc aagcctgtca 120  
 ttcctgagaa gtacctggat gagaagacca tcttccacct taacccttct ggccgttttg 180  
 tcattggtgg ccctcatggt gatgctggtc tcaactggaag aaagatcatc attgatacct 240  
 atggtgggtg ggggtgctcat ggtggag 267

<210> 1792  
 <211> 314  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 1792

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ccanaatcgc atgcacgcgt acgtaagctc ggaattcngc tcgagctcga gccgctcgag 60
ccggaatcag tgaacgaggg gcaccctgac aagctctgtg accagatcct ccgatgctgt 120
gctcgatgca tgcttgagc aggaccctga cagcaagggt gcctgtgaaa cctgcaccaa 180
gaccaacatg gtgatgggtt tcggagagat cacaaccaag gccaacgtgg actatgagaa 240
gattgtgcgt gacacatgca ggaacattgg ttttgtctct gatgatgtn gtcttgatgc 300
tgacaactgc aagt 314
```

<210> 1793

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1793

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gnnnnnaatt ctacgccggn ctctaacgcg nnaacanaat tcccggaaac gacccacgng 60
nccnntgcga gaagacgaca gaagggggca acgcttnagc agacttnaca acancacaaa 120
gcnggttact gtctgttcaa gctaacatct ccctctctct ttccttaant gcctccttnc 180
caagaaaagt aaaatggccc aagaaacttt cctattcaca totgaatcaa gttaacgaag 240
gggcaccccc gacaagctct gtgaccaaga tctccgatgc tgtgctcgat gcatgcttgg 300
agcaagaccc tgacagcaan gttgcctgtg aaacctgcac caagaccaac atggtgatgg 360
ttttcggaga gattacaacc aangccaacg tggactatga gaagattgtg cgttacacat 420
gcangaacat tggttttgtc tctgaagatg ttggtcctga agctgacaac tgcaangtcc 480
tcgtcaacaa ttaacaacaa naattctgat at 512
```

<210> 1794

<211> 294

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1794

```
nnngntctan gcacgcgtac gtaagctcgg aattcggctc gaggaccatc ttccacctta 60
acccttctgg ccgttttgtc attgggtggc ctcattggtga tgctggctc actggaagaa 120
```

agatcatcat tgatacctat ggtggctggg gtgctcatgg tggaggtgcc ttttcagga 180  
aggaccctac caagggttgac agaagtgggtg cctatatgtt aaggcaggct gcaaagagtg 240  
tcgtggcaaa tggccttgct agaaggtgca ttgtgcaagt ttcctatgcc attg 294

<210> 1795  
<211> 301  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1795

cgannacgtc gcangcacgc gtacgtaagc tcggaattcg gctcgaggga cgagacccca 60  
gaattgatgc cattgagtca tgttcttgca actaaactcg gtgctcgtct caccgaggtt 120  
cgcaagaacg gaacctgccc atggttgagg cctgatggga agacccaagt gactgttgag 180  
tattacaatg acaacggtgc catggttcca gttcgtgtcc aactgtgtct tatctccacc 240  
caacatgatg agactgtgac caacgacgaa attgcagctg acctcaagga gcatgtgatc 300  
a 301

<210> 1796  
<211> 277  
<212> DNA  
<213> Glycine max  
<400> 1796

gcatgcacgc gtacgtaagc tcggaattcg gctcgagagt ggtgcctaca ttgtgaggca 60  
agctgcaaag agcattgttg caaatggact tgctaggagg gcaattgtgc aagtttctta 120  
tgccattggt gtgcctgagc ctttgtctgt gtttgttgac acttatggca ctgggaagat 180  
ccctgacaag gaaatcctca gcattgtgaa ggagagtttt gacttcaggc ctggcatgat 240  
ctccatcaac cttgatctca agaggggtgg aaatggc 277

<210> 1797  
<211> 297  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1797

gcangcacgc nnacgtnagc tcggaattcg gctcgagacc ctaccaaggt tgacagaagt 60  
 ggngcctata tcgtgaggca ggctgcaaag agtgttgtgg canatggcct tgccagaagg 120  
 tgcattgtcc aagtttccta tgccattggg gtccctgagc ctttgtcagt gtttgtggac 180  
 acttatggaa ctgggaagat tcctgncaag gagattcttc aaattgtgaa ggagaatttc 240  
 gacttnagac ctggaatgat caccattaac ttggacctta agaggggtgg ccatagg 297

<210> 1798  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1798

agagcccgga tatcgcccag ggtgtgcacg gccacttcac caagcgccca gaggagggtg 60  
 gtgctggtga ccagggtcac atgtttgggt atgncaccga tgaaaccccc gagtacatgc 120  
 ccctcagcca tgtccttgca accaaacttg gtgctgcgct cacagagggt aggaagaatg 180  
 gcacctgtgc ttggttgagg ccagatggta agacacaagt aaccgtcgag tactacaatg 240  
 acaatggtgc catggttcca ttcg 264

<210> 1799  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1799

nagtcgcang cacgcgtacg taagctcgga attcggtcgc agccagaatt catgccattg 60  
 agtcatgttc ttgcaaccaa gctcgggtgct cgtctcaccg aggttcgcaa gaacggaacc 120  
 tgcccatggc tgaggcctga tgggaagacc caagtgactg tggagtatta caatgataat 180  
 ggtgccaggg ttccagttcg tgtncacacc gtgctaattc ccaccagca tgatgagact 240  
 gtcaccaacg acgaaattgc ggctgacctc aaggagcatg tgatnaagcc tgtgatcccg 300  
 gngaagtnc t 311

<210> 1800  
 <211> 508  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1800

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ttttgtntnc cgaggccccc acnancntcn tggcctcgng nccacgcgta ngtaaantcg 60
gaattcggct cgagatttga ggccaggcaa gcccactca accaccacac ctctcctcgt 120
tcacgctacc cctttctgct cttctttctac ctttcaagtt ttaaaagtat aaagatggca 180
gagacattcc tatttacctc agagtcggtg aacgagggac accctgacaa gctctgcgac 240
caaatctccg atgctgtcct cgacgcttgc ctcgagcagg acccagacag caaagttgcc 300
tgcgaaacat gcacaaaaac caacttgggc atggtcttcg gagaaatcac gaccaaggcc 360
aacgttgact acganaagat agtgcgtgac anctgcaaga acatcggctt cntctcaaat 420
gatgtgggac tggatgccga caactgcaag gtcctccgtc aacantgaac aacaagaacc 480
ctgatattgc ncaagggttt naaccggc 508
```

<210> 1801

<211> 292

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1801

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gtcgcangca cgcgtacgta agctcggaat tcggctcgag ccctaccaag gttgacagaa 60
gtggtgccta tatcgtgagg caggctgcaa agagtgttgt ggcaaatggc cttgccagaa 120
ggtgcattgt ccaagtttcc tatgccattg gtgtccctga gcccttgtca gtgttttgtg 180
acatttatgg aactgggaag attcctgaca aggagattct tcaaattgtg aaggagaatt 240
tcgacttcag acctggaatg atcaccatta acttggaact taagaggggt gg 292
```

<210> 1802

<211> 306

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1802

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cgctgcangc acgcgtacgt aagctcgga ttcggctcga gctcgagccg cgcccagagg 60
aggttgggtgc tggtgaccag ggtcacatgt ttggctatgc cactgatgaa acccctgagt 120
```

acatgcccct cagccatgtc cttgcaacca aactcgggtgc tgcctcacc gaggttagga 180  
 aaaatggtac ctgtgcttgg ctgaggccag atggcaagac acaagtaact gttgagtact 240  
 acaatgacaa tggtgccatg gttccagttc gtgtccacac tgtcctaatt tccacccaac 300  
 atgatac 306

<210> 1803  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1803

acgtcgcattg cagcgtacg taagctcggg attcggctcg agctccgatg ctgtgctcga 60  
 tgcattgcttg gagcaggacc ctgacagcaa ggttgcttgt gaaacctggc accaagacca 120  
 acatggtgat ggttttcgga gagatcacia ccaaggccaa cgtggactat gagaagattg 180  
 tgcgtgacac atgcaggaac attggtttta nctctgatga tgttggtctt gatgctgaca 240  
 actgcaaggt cctcgtcaac attgagcaac agagtcctga tattgctcaa ggtgtgcacg 300  
 gccacctca 309

<210> 1804  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1804

gagaagacga cagaaggggg cancgcttga tttnaggcca ggcangcccc actcanccac 60  
 cacacctctc ctcnttcacg ctaccctttt ctgctcttct tctanctttc aagtttttaa 120  
 agtataaaga tggcagagan attcntatatt acctcagagt cggatgaacga gggacacct 180  
 gacaagctct gcgaccaaatt ctccgatgct gtctctgacg cttgcctcna gcaggancca 240  
 nacagcaaaa ttgcctgcna aacatgcacc aaaaccaact tggatcatggt cttcggagan 300  
 atcacgacca aggccaacgt tgactacgag aagatagtgc gtgacacctg caggaacatc 360  
 ggcttcgtct caaaatgatg tgggactgga tcccagacaac tgcaangtcc tegtcaacat 420  
 ttgaacanca naggcct 437

<210> 1805  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1805

gtcgcgnnna cgcgtacgta agctcggaat tcggctcgag aacagagtcc tgatattgct 60  
 caaggtgtgc acggccacct tcacaaagag gcctgaggag attggtgctg gtgaccaagg 120  
 tcatatgttc ggctatgcca ctgacgagac tcccgagctc atgcccttga gccatgtcct 180  
 tgccacgaag ctcggtgcca agctcaccga ggttcggaag aacgggacat gcccttggtc 240  
 gagacctgat ggcaagaccc aagtcactgt tgagtactac aatgacaagg gtgccatgg 299

<210> 1806  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<400> 1806

cgtcgcacgc acgcgtacgt aagctcgga ttcggctcga gtcacgacca aggccaacgt 60  
 tgactacgag aagatagtgc gtgacacctg caggaacatc ggcttcgtct caaatgatgt 120  
 gggactggat gccgacaact gcaaggctct cgtcaacatt gagcagcaga gccctgatat 180  
 tgctcagggg gtacacggcc accttacc aaacacctgaa gaaattgggt ctggtgacca 240  
 gggtcacatg tttggctatg ccaactgatga aaccctgaa ttgatgccat tgagcc 296

<210> 1807  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1807

ntcgcacgca cgcgtacgta agctcggaat tcggctcgag ctgagccgc attcctgaga 60  
 agtaccttga tgagaagacc atcttcacc ttaacccttc angccgtttt gtcattgggt 120  
 gccctcatgg tgatgctggt ctactggaa gaaagatcat cattgatacc tatggtggct 180  
 ggggtgctca tgggtggagg gccttttcag ggaaggaccc taccaagggt gacagaagt 240



gtgcctatat tgtaaggcag gctgcaaaga gtgtcgtggc aaatggcctt gctagaaggt 300  
gcatgtgc 308

<210> 1808  
<211> 261  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1808

caggctgcta agagcattgt ggcaagtgga cttgccagaa ggtgcattgt gcaagtgtct 60  
tatgccattg gtgtgcctga gcctttgtct gtgtttgttg acacctatgg cactgggaag 120  
atccatgata aggagattct caacattgtg aaggaaaact ttgatttcag gcctgggatg 180  
atctccatca accttgatct caagaggggt ggaaataacn ggttttggan nactgccncc 240  
natggacant tggaangnac c 261

<210> 1809  
<211> 275  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1809

cgctgcangc acgcgtacgt aagctcggaa ttcggctcgn gctgagccct tgtctgtgtt 60  
tgttgacact tatggcactg ggaagatccc tgacaaggaa atcctcagca ttgtgaagga 120  
gagttttgac ttcaggcctg gcatgatctc catcaacctt gatctcaaga ggggtggaaa 180  
tggcaggttc ttgaagactg ctgcatatgg acactttggc agagatgacc ctgaattcac 240  
atgggaagtg gtgaagccac tcaaggggga gaagg 275

<210> 1810  
<211> 270  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1810

nantcgnang ctngaattc ggctcgaggg tgatggtttt cggagnnntc anaaccaagg 60

ccaacgtgga ctatgagaag attgtgctg acacatgcag gaacattggt tttgtctctg 120  
atgatgttgg tcttgatgct gacaactgca aggtcctcgt caacattgag caacagagtc 180  
ctgatattgc tcaaggtgtg cacggccacc tcacaaagag gcctgaggag attggtgctg 240  
gtgaccaagg tcatatgttc ggctatgcca 270

<210> 1811  
<211> 317  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1811

tgcacgcgta cgtaagctcg gaattcggct cgaggacacc tatggaggat ggggtgcaca 60  
tggtggtggt gccttctctg ggaaggatcc tatcaagggt gataggagtg gtgcctacat 120  
tgtgaggcaa gctgcaaaga gcattgttnc caaatggact tgctaggagg gcaattgtgc 180  
aagtttccta tgccattggt gtgcctgagc cttgtctgt gtttgttgac acttatggca 240  
ctgggaagat ccctgacaag gaaatcctca gcattgtgaa ggagagtttt gactcaggcc 300  
tggatgatct cnatcac 317

<210> 1812  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1812

acgtcncang cangcgtacg taagctcgn attcggctcg aggcttgaga aatggcacaa 60  
ganacctttc tattcacatc tgaatctgta aacgagggtc accccgacaa gctgtgcgaa 120  
ccagatctct gatgcagtgc tcgatgcgtg cttgaacag gaccctgaca gcaaggttgc 180  
ctgtgagaca tgcaccaaga ccaacatggt catggctctt ggagngatca canccaaggg 240  
ccnnacgtag nctatgagaa gattgtccgt gacacctgcc gcgaaattgg attcatctct 300  
gatgtgttcg gtcnngatgc gcc 323

<210> 1813  
<211> 342  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 1813

gctgcaaaga gtgttgtggc aaatggcctt gccagaaggt gcattgtcca agtttcctat 60  
 gccattggtg tccctgagcc cttgtcagt tttgtggaca cttatggaac tgggaagatt 120  
 cctgacaagg agattcttca aattgtgaag gagaatttcg acttcagacc tggaatgatc 180  
 accattaact tggaccttaa gaggggtggc catagggtcc tcaagacagc tgcttatgga 240  
 cactttggaa gggatgacct gacttcacct gggaagttgt gaagccatca agtctgagaa 300  
 gccncaactt agatgtgtga gttaaccatc ccttcatggn gc 342

<210> 1814  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1814

agtgcgancg acgcgtacgt aagctcggaa ttcggctcga gacggctgcg agaagcgaca 60  
 gaaggggaag aaagatcatc attgatacct atgggtggctg ggggtgctcat ggtggagggtg 120  
 ccttttcagg gaaggaccct accaagggtg acagaagtgg tgcctatatt gtaaggcagg 180  
 ctgcaaagag tgtcgtggca aatggccttg ctagaagggtg catttgttca gtttcctatg 240  
 ccattggtgt ccctgagccc ttgtcagtgt ttgtggacac ttatggaact gggaagattc 300  
 ctgacaagga gattctgc 318

<210> 1815  
 <211> 280  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1815

cgcntgcacg cgtacgtaag ctcggaattc ggctcgagca cctatggagg atgggggtgca 60  
 catggtggtg gtgccttctc tgggaaggat cctaccaagg ttgataggag tgggtgcctac 120  
 attgtgaggc aagctgcaaa gagcattgtt gcaaattggac ttgctaggag ggcaattgtg 180  
 caagtttcct atgccattgg tgtgcctgag cccttgtctg tgtttgttga cacttatggc 240

actgggaaga tccctgacaa ggaaatcctc agcattgtgn 280

<210> 1816  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 1816

gagcattgtg gcaagtggac ttgccagaag gtgcattgtg caagtgtctt atgccattgg 60  
 tgtgcctgag cctttgtctg tgtttgttga cacctatggc actgggaaga tccatgataa 120  
 ggagattctc aacattgtga aggaaaactt tgatttcagg cctggtatga tctccatcaa 180  
 ccttgatctc aagaggggtg gaaataacag gtttttgaag actgctgcct atggac 236

<210> 1817  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1817

acgtcgcang cacgcngacg taagctcgga attcggctcg aggtgccntc tctgggangg 60  
 atcctaccaa gggtgatatg antggtgcct anattgtgag gcaagctgca aagagcattg 120  
 ttgcaaatgg acttgctagg agggcaattg tncaagtttc ctatgccatt ggtgngcctg 180  
 agcccttntc tgtgtttggt gacacggatg gcactgggaa gatccctgac aangnaatcc 240  
 tcagcattgt gaaggagagt tttgacttca ggcctggcnt gatctccatc naccttgagc 300  
 tcaagagggg tgnn 314

<210> 1818  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1818

gtcgcangca cgcgtacgtn agctcggaat tcggctcgag caatgacgaa attgctgctg 60  
 acctcaaaga gcatgtgatc aagcctgtga tcccagagaa gtaccttgat gagangacca 120  
 ttttccactt gaacccttca ggccgttttg tcattggtgg ccctcatggc gatgctggtc 180

tcaccggccg caagatcatt atcgatactt atggaggatg gggtgctcat ggtggtggtg 240  
 ctttctccgg gaaggaccct accaagg 267

<210> 1819  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1819

gtcgcangca cgcntacgta agctcgggaat tcggctcgag ctctgggaag gatacctacca 60  
 aggttgatag gagtgggtgcc tacattgtga ggcaagctgc aaagagcatt gttgcaaatg 120  
 gacttgctag gagggcaatt gtgcaagttt cctatgccat tgggtgtgcct gagcccttgt 180  
 ctgtgtttgt tgacacttat ggcaactggga agatccctga caaggaaatc ctcagcattg 240  
 tgaaggagag ttttgacttc aggcctggca tgatctcc 278

<210> 1820  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1820

catcgtatgc ncgcgtacgt aagctcggaa ttccggtcga gaattgtgca agtttcctat 60  
 gccattggtg tgctcgagcc cttgtctgtg tttgttgaca cttatggcac tgggaagatc 120  
 cctgcacaag gaaatcctca gcattgtgaa ggagagtgtt gacttcaggc ctggcatgat 180  
 ctccatcaac cttgatctca agaggggtgg aaatggcagg ttcttgaaga ctgctgcata 240  
 tggacacttt ggcagagatg accctgactt cacatgggaa g 281

<210> 1821  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1821

cttgccagaa ggtgcattgt gcaagtgtct tatgccattg gtgtncctga gcctttgtac 60

tgtgtttgtt gacacctatg gcactggaaa gatccctgac aaggagntcc ttaacattgt 120  
gaaggagaac tttgatttca ggcctggtat gatctccatc aaccttgatc tcaagagggg 180  
nggaaataac aggtttttga agactgctgc atatggacac tttggaagag aggaccctgg 240  
acttcacatg ggaag 255

<210> 1822  
<211> 300  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1822

gtcgcacatgca cgcgtacgta agctcgggaat tcggctcgan ggagtgggtgc ctacattgtg 60  
angcaagctg caaagagcat tgttgcaaata ggacttgcta ggaggggcaat tgtgcaagtt 120  
tcctatgccca ttggtgtgcc tgagcccttg tctgtgtttg ttgacactta tggcactggg 180  
aagatccctg acaaggaaat cctcagcatt gtgaaggaga gttttgactt caggctggca 240  
tgatctccat caacttgatc tcaagagggg tgggaatggc aggttcttga gatgctgcaa 300

<210> 1823  
<211> 283  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1823

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag gtgcctacat tgtgaggcaa 60  
gctgcaaaga gcattgttgc aaatggactt gctaggaggg caattgtgca agtttcctat 120  
gccattggnc tgctgagcc cttgtctgtg tttgttgaca cttatggcac tgggaagatc 180  
cctgacaagg aaatcctcag cattgtgaag gagagttttg acttcaggcc tggcatgatc 240  
tcatcaacct tgatctcaag aggggtggaa atggcaggtt ctt 283

<210> 1824  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1824

accgtgnann cacnctacg taagctcgga attcggctcg agnggcaggt ttgtcattgg 60  
 agggccgcat ggcgatgntg gtctcaccgg ccgcaagatc atcatcgaca cctatggagg 120  
 atgggggtgca catgggtggtg gtgccttctc tgggaaggat cctaccaagg ntgataggag 180  
 tgggtgcctac attgtgaggc aagctgcaaa gagcattgtt gcaaatggac ttgctaggag 240  
 ggcaattgtg caagtttcct atggccattg gtgtgcctga gcccttgtct gtgtttgtng 300  
 acactt 306

<210> 1825  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1825

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag ggaggttggt gctggtgacc 60  
 agggtcacat gtttggtat gccactgatg aaaccctga gtacatgcc ctcagccatg 120  
 tccttgcaac caaactcggg gtcgcctca ccgaggtag gaaaaatgg acctgtgctt 180  
 ggctgaggcc agatggcaag acacaagtaa ctgttgagta ctacaatgac aatggtgcca 240  
 tggttccagt tcgtgtccac antgtcntaa tttccacca ncatgatcct nctgtgagca 300  
 tgaccaaatt ggt 313

<210> 1826  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <400> 1826

ccaccacacc tctcctcggt cacgctaccc ctttctgctc ttcttctacc tttcaagttt 60  
 taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 120  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga 180  
 ccagacagc aagttgcctg cgaaacatgc accaaaacca acttggtcat ggtcttcgga 240  
 gaaatcacga ccaaggccaa cgttgactac gagaagatag tgctgacac ctgcaggaac 300  
 atcggcttcg tctcaaata tgtgggatgg atgccgacaa ctgcaaggtc ctcgta 357

<210> 1827  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1827

tgncgcatgc actcgtacgt aagctcggaa ttcggctcga ggcaagggtcc tcgtcaacat 60  
 tgagcaacag agtcctgata ttgctcaagg tgtgcacggc caccttcaca aagaggcctg 120  
 aggagattgg tgctggtgac caaggtcata tgttcggcta tgccactgac gagactcccg 180  
 agctcatgcc cttgagccat gtccttgcca cgaagctcgg tgccaagctc accgagggttc 240  
 ggaagaacgg gacatgccct tggctgagac ctgatggcaa gacccaagtc atgttgagta 300  
 tacaatgaca agggtgccat 320

<210> 1828  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1828

nngtcgcattg cacgcgtacg taagctcggg attcggctcg agggctcctcg tcaacattga 60  
 gcaacagagt cctgatattg ctcaagggtg gcacggccac ctcaaaaaga ggcttgagga 120  
 gattggtgct ggtgaccaag gtcatatgtt cggctatgcc actgacgaga ctcccagact 180  
 catgcccttg agccatgtcc ttgccacgaa gctcggtgcc aagctcaccg aggttcggaa 240  
 gaacggggaca tgcccttggc tgagacctga tggcaagacc ca 282

<210> 1829  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 1829

cgtgacacat gccgcgaaat tggattcatc tctgatgatg ttggtcttga tgctgacaaa 60  
 tgcaagggtg ttgtcaacat tgagcagcag agccctgata tcgcccaggg tgtgcacggt 120  
 cacttcacca agcgcgccaga ggaggttggt gctggtgacc agggtcacat gtttggctat 180



gccactgatg aaacccctga gtacatgccc ctacagccatg tcttgcaacc aaactcggtg 240  
 ctcgctcacc gaggttagga aaaatggtac tgtgcttggc tga 283

<210> 1830  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1830

ncncangcac gcgtacgtaa gctcggaatt cggctcgagn cgtgacacct gcaggaacat 60  
 cggcttcgtc tcaaatgatg tgggactgga tgccgacaac tgcaagggtcc tcgtcaacat 120  
 tgagcagcag agccctgata ttgctcaggg tgtacacggc caccttacca aaaaacctga 180  
 agaaattggt gctggtgacc agggtcacat gtttggctat gccactgatg aaacccctga 240  
 attgatgcca ttgagccatg ttcttgcaac aaaactcggt gctcgctctca 290

<210> 1831  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1831

gtcgcangca cgcgtacgta agctcggaat tcggctcgag catgcttgnc agcaggaccc 60  
 tgacagcaag gttgcctgtg aaacctgcac caagaccaac atggtgatgg ttttcggaga 120  
 gatcacaacc aaggccaacg tggactatga gaagattgtg cgtgacacat gcaggaacat 180  
 tggttttgtc tctgatgatg ttggtcttga tgctgacaac tgcaagggtcc tcgtcaacat 240  
 tgagcaacag agtcctgata ttgctcaa 268

<210> 1832  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1832

cgcangcacg cgtacgtaag ctcggaattc ngctcgangg agattggtgc tggtgaccaa 60  
 ggtcatgggt tcggctatgc cactgacgag actcccgagc tcatgccctt gagccatgtc 120

cttgccacga agctcgggtgc caagctcacc gaggttcgga agaacgggac atgcccttgg 180  
ctgagacctg atggcaagac ccaagtcact gttgagtact acaatgacaa gggtgccatg 240  
gttccaatcc gcgtccacac tgtgctcatc tncacacaac atacgaccng agtgtggncg 300  
cggattggna catgg 315

<210> 1833  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 1833

agaaattggt gctggtgacc agggtcacat gtttggtat gccactgatg aaaccctga 60  
attgatgcca ttgagccatg ttcttgcaac aaaactcggg gctcgtctca ccgaggttcg 120  
caagaacggg acctgccctt ggctgaggcc tgatgggaag acccaagtga ccgttgagta 180  
ttacaatgac aatggtgcca ggggttcctat tcgtgtacac accgtgctaa tctccacca 240

<210> 1834  
<211> 296  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1834

antcgcgatgc acgcgtacgt aagctcggaa ttcggctcga ggctcgcgatgc atgcttgag 60  
caggaccctg acagcaaggt tgcctgtgaa acctgncacc aagaccaaca tggatgatgg 120  
tttcggagag atcacaacca aggccaacgt ggactatgag aagattgtgc gtgacacatg 180  
caggaacatt ggtccaagtc tctgatgatg ttggtcttga tgctgacaac tgcaagggtcc 240  
tcgtcaacat tgagcaacag agtcctgata ttgctcaagg tgtgcacggc cacctc 296

<210> 1835  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 1835

gtcgcgatgca cgcgtacgta agctcggaa ttcggctcgc gcaagatcat tatcgatact 60

tatggaggat ggggtgctca tgggtggtggt gctttctccg ggaaggaccc taccaagggtt 120  
gataggagtg gtgcttacat tgtgagacag gctgctaaga gcatgtggca agtggacttg 180  
ccagaagggtg cattgtgcaa gtgtcttatg ccattggtgt gcctgagcct ttgtctgtgt 240  
ttgttgacac ctatggcact ggaagatcc atgataagga gattct 286

<210> 1836  
<211> 341  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1836

nacangcacg cntacgtaag ctcggaattc ggctcgagct caagtttttg aagtatagag 60  
atggcagaga cattcctatt tacctcagag tcagtgaacg agggacaccc tgnccaagct 120  
ctgtgaccaa atctctgatg ctgtcctcga cgcttgccctc gaacaggacc cagacagcaa 180  
ggttgccctgc gaaacatgca ccaaaaccaa cttggtcatg gtcttcggag aaatcacgac 240  
caaggccaat gttgactacg agaagatagt gcgtgacacc tgcaggaaca tcggctttgt 300  
ctcaaacgat gtgggactgg atgccgacaa tgcaagggtcc t 341

<210> 1837  
<211> 313  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1837

gtcnnangca cgntacgtaa gctcggaatt cggtcgcanc tcgagccgaa tcggctcgag 60  
gccgcatggc gatgctggtc tcncncggcc gcaagatcan catcgacacc tatggaggan 120  
ggggtgcaca tgggtggtggt gccttctctg ggaaggatcc taccaagggtt gataggagtg 180  
gtgcctacat tgtgaggcaa gctgcaaaga gcattgttgc aaatggactt gctaggaggg 240  
caattgtgca agtttcctat gccattggtg tgcccgagcc cttgtctgtg tttgttgaca 300  
cttatggcac tgg 313

<210> 1838  
<211> 276  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1838

nangcacgcg tacgtaagct cggaattcgg ctcgaggaca cctgcaggaa catcggcttc 60  
gtctcaaatg atgtgggact ggatgccgac aactgcaagg tcctcgtcaa cattgagcag 120  
cagagccctg atattgctca ggggtgtacac ggccacctta ccaaaaaacc tgaagaaatt 180  
gggtgtggtg accaggggtca catgtttggc tatgccactg atgaaacccc tgaattgatg 240  
ccattgagcc atgttcttgc aacaaaaactc ggtgct 276

<210> 1839

<211> 286

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1839

angtcgcang cacgcgtacg taagctcgga attcggctcg agntgcacca aaaccaactt 60  
ggatcatggtc ttccggagaaa tcacgaccaa ggccaacgtt gactacgaga agatagtgcg 120  
tgacacctgc aggaacatcg gcttcgtctc aaatgatgtg ggactggatg ccgacaactg 180  
caaggctctc gtcaacattg agcagcagag ccctgatatt gctcaggggtg tacacggcca 240  
ccttaccaaa aaacctgaag aaattgggtgc tggtgaccag ggtcac 286

<210> 1840

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1840

gtcgctagca cgcgtacgta agctcggaat tcggctcgag ntttcctatg ccattgggtgt 60  
ccctgagccc ttgncagtgt ttgtggacac ttatggaact gggaagattc ctgacaagga 120  
gattcttcaa attgtgaagg agaatttcga cttcagacct ggaatgatca ccattaactt 180  
ggaccttaag aggggtggcc ataggttcct caagacagct gcttatggac actttggaag 240  
ggatgaccct gacttcacct gggaagttgt gaagccactc aagtctgaga agcctcaagc 300  
ntaagattgt tgtga 315

<210> 1841  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1841

gagaagacga cagaaggggg cagcgcttga tttgaggcca ggcaagcccc actcaaccac 60  
 cacacctctc ctcgttcacg ctaccccttt ctgctcttct tctacctttc aagtttttaa 120  
 agtataaaga tggcagagac attcctattt acctcagagt cggatgaacga gggacaccct 180  
 gacaagctct gcgaccaaatt ctccgatgct gtcctcgacg cttgcctcga gcaggaccca 240  
 gacagcaaag ttgcctgcga aacatgcacc aaaaccaact tggatcatggt cttcggagaa 300  
 atcacgacca aggccaaactg tgactacgag aagatagtgc gttacacctg caagaacatc 360  
 cgntttctct cnaatgattt ggaactggat nccaaaaatt gcaaggtc 408

<210> 1842  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 1842

ttgataccta tggatggctgg ggtgctcatg gtggagggtgc cttttcaggg aaggacccta 60  
 ccaaggttga cagaagtggg gcctatatattg taaggcaggc tgcaaagagt gtcgtggcaa 120  
 atggccttgc tagaagggtgc attgtgcaag tttcctatgc cattgggtgc cctgagccct 180  
 tgtcagtgtt tgtggacact tatggaactg ggaagattcc tgacaaggag attctgcaat 240  
 tgtgaaggag attcc 255

<210> 1843  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 1843

tctcaagttt ttgaagtata gagatggcag agacattcct atttacctca gagtcagtga 60  
 acgagggaca ccctgacaag ctctgtgacc aaatctctga tgctgtcctc gacgcttgcc 120

tcgaacagga cccagacagc aagggtgcct gcgaaacatg caccaaaacc aacttggtca 180  
 tgggtcttcgg agaaatcacg accaaggcca atgttgacta cgagaagata gtgcgtgaca 240  
 cctgcaggaa catcggcttt gtctcaaacg atg 273

<210> 1844  
 <211> 272  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1844

nacgcangcn cgcgtacgta agctcggaat tcggctcgag agtggacttg ccagaagggtg 60  
 cattgtgcaa gtgtcttatg ccattgggtgt gcctgagcct ttgtctgtgt ttgttgacac 120  
 ctatggcact gggaagatcc atgataagga gattctcaac attgtgaagg aaaactttga 180  
 tttcaggcct ggtatgatct ccatcaacct tgatctcaag aggggtggaa ataacagggtt 240  
 tttgaagact gctgcctatg gacactttgg aa 272

<210> 1845  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1845

gtcgcangca cgcgtacgta agctcggaat tcggctcgag cacgaagctc ggtgcccaagc 60  
 tcaccgaggt tcggaagaac gggacatgcc cttggctgag acctgatggc aagacccaag 120  
 tcactgttga gtactacaat gacaagggtg ccatggtncc caatccgcgt ccacactgtg 180  
 ctcatctcca cacagcatga tgagactgtc acaaatgatg agattgcagc tgatcttaaa 240  
 gaacacgtga ttaagcctgt gattcctgag aagtacctt 279

<210> 1846  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1846

gtcgcacatgca cgcgtacgta agctcggaat tcggctcgag gaccaacatg gtgatggttt 60

tcggagagat cacaaccaag gccaacgtgg actatgagaa gattgtgcgt gacacatgca 120  
ggaacattgg ttttgtctct gatgatgttg gtcttgnitgc tgacaactgc aaggtccctc 180  
gtcaacattg agcaacagag tcctgatatt gctcaagggtg tgcacggcca cctcaciaaag 240  
acgcctgagg agattggtgc tggtagacca 269

<210> 1847  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1847

ccacgcgtcc gtacngctgc gagaagacga cagaaggggg cagcgcttga tttgaggcca 60  
ggcaagcccc actcaaccac cacacctctc ctcgttcacg ctaccctttt ctgctcttct 120  
tctacctttc aagttttaaa agtataaaga tggcagagac attcctatth acctcagagt 180  
cggatgaacga gggacaccct gacgagctct gcgaccaaht ctccgatgct gtcctcgacg 240  
cttgccctga gcaggaccca gacagcaaag ttgcctgcga aacatgcacc aaaaccaact 300  
tggatcatggt cttcggagaa atcacgacca angncaacgt tgactacgan aaaganantg 360  
ggttanactn gcagganntc ggcttcgtct caaatgatgt gggactggat gccgacaact 420  
gcaaggctct cgtcaacat 439

<210> 1848  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1848

tcgaggccag gcaagcccca ctcaaccacc acacctctcc tcgttcacgc tacccttttc 60  
tgctcttctt ctacctttca agttttaaaa gtataaagat ggcagagaca ttcctattta 120  
cctcagagtc ggtgaacgag ggacaccctg acaagctctg cgaccaaahc tccgatgctg 180  
tcctcgacgc ttgcctcgag caggacccag acagcaaagt tgcttcgcaa acatgcacca 240  
aaaccaactt ggtcatggtc ttcggagaaa tcacgaccaa ggccaacgtt gactacgaga 300  
agatagtgcg tgacacctgc aagaacatcg ggttcgtccc aatgatggtt tggaactggg 360

gttccgacaa ctgggaaagg tcctcggtca anattgagca agcaaag 407

<210> 1849

<211> 282

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1849

gtcgcaggca cgcgtacgtn agctcggaat tcggctcgag nttcctatatt acctcagagt 60

cagtgaacga gggacaccct gacaagctct gtgaccaaatt ctctgatgct gtccctcgacg 120

cttgccctcga acaggaccca gacagcaagg ttgcctgcga aacatgcacc aaaaccaact 180

tggtcatggt cttcggagaa atcacgacca aggccaatgt tgactacgag aagatagtgc 240

gtgacacctg caggaacatc ggctttgtct caaacgatgt gg 282

<210> 1850

<211> 266

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1850

agtngcangc acgcgtacgt aagctcgga ttcggctcga gagcaattta tcaagcctgt 60

cattcctgag aagtacctgg atgagaagac catcttcac cttaccctt ctggccgttt 120

tgtcattggt ggccctcatg gtgatgctgg tctcactgga agaaagatca tcattgatac 180

ctatggtggg tggggtgctc atggtggagg tgccttttca gggaaggacc ctaccaaggt 240

tgacagaagt ggtgcctata tcgtga 266

<210> 1851

<211> 272

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1851

ggtgctcatg gtggtggtgc cttctccggg aaggatccca ccaaggttga taggagtgg 60

gcttacattg tgagacaggc tgctaagagc attgtggcaa gtggactagc cagaaggtgc 120



attgtgcaag tgtcttatgc cattgggtgtg cccgagcctt tgtctgtctt tgttgacacc 180  
tatggcaccg ggaagatcca tgataaggag attctcaaca ttgtgaagga gaatttgatt 240  
ncaggccccg tatgatctcc atcaaccttg at 272

<210> 1852  
<211> 305  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1852

cnncatncgt aagtnantnc nncattnggc tcgagccaac ttggatcatgg tctncggata 60  
natcntgncc aaggccancg ttgnctacga gnagatagtg cgtgacacct gcaggaacat 120  
cggcttcgtc tcanatgatg tgggactgga tgccgacaac tgcaagggtcc tcgtcaacat 180  
tgagcagcag agccctgata ttgctcaggg tgtacacggc caccttacca aaaaacctga 240  
agaaattggg gctgggtgacc aggggtcacat gtttggtctat gccatgatga nccctgaatt 300  
gatgc 305

<210> 1853  
<211> 340  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1853

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gcacaaagcg gggttactgtc 60  
tgttcaagct accatctctc tctctctttc ttagtgccctc cttgccagaa gttaaaatgg 120  
cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctct 180  
gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct gacagcaagg 240  
ttgcctgtga aacctgcacc aagaccaaca tgggtgatggg tttcggagag atcacaacca 300  
aggccaacgt ggactatgag aagattgtgc gtgacacatg 340

<210> 1854  
<211> 329  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 1854

```

agtcgcangc acgcntacgt aagctcggaa ttcggctcga gctctctgtt ctcttctacc 60
tctcaagtnt ttgaagtata gagatggcag agacattcct atttacctca gagtcngtga 120
acgagggaca ccctgacaag ctctgtgacc aaatctctga tgctgtcctc gacgcttgcc 180
tcgaacagga cccagacagc aagggtgcct gcgaaacatg caccaaaacc aacttggtca 240
tggtcttcgg agaaatcacg accaaggcca atgttgacta cgagaagata gtgcgtgaca 300
cctgcaggaa catcggcttt gtctcaaac 329

```

<210> 1855  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1855

```

tcgcatgcac gcntacgtaa gctcgggaatt cggctcgagn ganattgggtg ctggtgacca 60
gggtcacatg tttggctatg ccaactgatga aaccctgaa ttgatgccat tgagccatgt 120
tcttgcaaca aaactcgggtg ctcgtctcac cgagggtcgc aagaacggta cctgcccttg 180
gctgaggcct gatgggaaga cccaagtgac cgttgagtat tacaatgaca atggtgccag 240
ggttcctatt cgtgtacaca ccgtgcnnaa tctccacca acacgacgag nct 293

```

<210> 1856  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1856

```

naaangtcgc atgcacgcgt acgtaagctc ggaattcggc tcgagtgacc gttgagtatt 60
acaatgacaa tgggtgccagg gttcctattc gtgtacacac cgtgctaadc tccaccaaac 120
acgacgagtn ctgtcaccaa tgacgaaatt gctgctgacc tcaaagagca tgtgatcaag 180
cctgtgatcc cagagaagta ccttgatgag aagaccattt tccaacttga acccttcagg 240
ccgttttgtc attgggtggc ctcattggcg tgctgggtctc accggccgca agatcattat 300
cgatac 306

```

<210> 1857  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1857

gcangcaggg gtacgtnagc tcggaattcg gctcgagggg aggttgggtgc tggtgaccag 60  
 ggtcacatgt ttggctatgc cactgatgaa acccctgagt acatgcccct cagccatgtc 120  
 cttgcaacca aactcgggtgc tcgcctcacc gaggttagga aaaatgggtac tgtgcttggc 180  
 tgaggccaga tggcaagaca caagtaactg ttgagtacta caatgacaat ggtgccatgg 240  
 ttccagttcg tgtccacact gtcctaattt ccacacaaca tgnncnnnacc ganc 294

<210> 1858  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1858

gagaagacga cagaaggggg cagcgcttga tttgaggcca ggcaagcccc actcaaccac 60  
 cacacctctc ctcggttcacg ctaccccttt ctgctcttct tctacctttc aagttttaaa 120  
 agtataaaga tggcagagac attcctattt acctcagagt cgggtgaacga gggacaccct 180  
 gacaagctct gcgaccaaatt ctccgatgct gtcctcgacg cttgcctcga gcaggaccca 240  
 agacagcaaa gttgcctgcg aaacatgcac caaaaccaac ttgggtcatgg tcttcggaga 300  
 aatcacgacc aaggccaacg ttgactacga gaagatagtg cgtgacacct gcangaacat 360  
 cggcttcgct tcaaattgatg tgggactgga tgcc 394

<210> 1859  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1859

cgcattgcacg cgtacgtaag ctcggaattc gggctcgagc tctgatgatg ttggtcttga 60

tgctgacaaa tgcaagggtgt tgggtcaacnt tgagcagcag agccctgata tcgcccaggg 120  
 tgtgcacgggt cactttcacc aagcgcccag aggagggttg tgctgggtgnc cagggtcaca 180  
 tgtttggcta tgccactgat gaaacccctg agtacatgcc cctcagccat gtccttgcaa 240  
 ccaaaactcgg tgctcgctc accgagttag gaaaaatggt acctgtgctt ggctgaggcc 300  
 agatngc 307

<210> 1860  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1860

gnaactctta ccggccangt accgttaang agccccggnt cgacannacg cgttagtccg 60  
 gctgcgaaga aaacgacaga agggggcagc gcttgatttg aggccaggca agccccactc 120  
 aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt 180  
 tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggg 240  
 caccctgaca agctctgcga ccaaactctcc gatgctgtcc tcgacgcttg cctcgagcag 300  
 gacccagaca gcaaagttgc ctgcgaaaca tgcacaaaaa ccaacttgggt catgggtcttc 360  
 ggagaaaatca cgaccaangg caacgttgac tacnanaann aaattncntg acacctgcag 420  
 gaacatcggc ttcgtctcaa atgatgtggg actgggatgc cgacaactgc aangtcctcg 480  
 tcaacattga gca 493

<210> 1861  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1861

ggcttttnng ccngtnnaa tcttacaggc caggtagcgg tacggaattc ccggctcgac 60  
 ccacgcgtac gtacggctgc gagaagacga cagaaggggg cagcgcttga tttgaggcca 120  
 ggcaagcccc actcaaccac cacacctctc ctcgttcacg ctaccccttt ctgctcttct 180  
 tctacctttc aagttttaaa agtataaaga tggcagagac attcctattt acctcagagt 240

cggatgaacga gggacaccct gacaagctct gcgaccaa atccgatgct gtcctcgacg 300  
 cttgcctcga gcaggaccca gacagcaaag ttgcctgcga aacatgcacc aaaaccaact 360  
 tggatcatggt cttcggagaa atcacgacca angccaacgt tgactacgaa aaagataatt 420  
 ccttaacacc tgcaggaaca tcggcttcgt ctcaaatgat gtgggactgg atgccgacaa 480  
 ctgcaaggt 489

<210> 1862  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1862

gtcgcatgca cgcgtacgtn agctcggaa tccgctcgag cagaacatcg ntctgtctca 60  
 aatgatgtgg gactggatgc cgacaactgc aaggtaacct gtacaacatt gagcagcaga 120  
 gccctgatat tgctcagggt gtacacggcc accttacaa aaaacctgaa gaaattggtg 180  
 ctggtgacca gggtcacatg ttgggtatg cactgatga aaccttgaa ttgatgccat 240  
 tgagccatgt tcttgcaaca aaactcgggt ctcgtctcac cgagggttcgc aagaacggta 300

<210> 1863  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1863

ncatgcacgc gtacgtaagc tcggaattcg gctcgagctt ctacctctca agtttttgaa 60  
 gtatagagat ggcagagaca ttctatttta ccttcagagt cagtgaacga gggacaccct 120  
 gacaagctct gtgaccaa atctgatgct gtcctcgacg cttgcctcga acaggaccca 180  
 gacagcaagg ttgcctgcga aacntgcacc aaaaccaact tggatcatggt cttcggagaa 240  
 atcacgacca agccaatgt tgactacgag aagatagtg gtgacacctg caggaacatc 300  
 ggctttgtct caaacgatgt gggactggat 330

<210> 1864  
 <211> 308  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1864

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cgcatgcacg cgtacgtaag ctcggaattc ggctcganct cgagccgaat tcngctcgag 60
ttcggctcga gcatggtgga gntgcctttt cagggaaagn ccctaccaag gttgacagaa 120
gtggtgccta tatcgtgagg caggctgcaa agagtgttgt ggcaaattggc cttgccagaa 180
ggtgcattgt ccaagtttcc tatgccattg gtgtccctga gcccttgtca gtgtttgtgg 240
acacttatgg aactgggaag attcctgaca aggagattct tcaaattgtg aaggagaatt 300
cgacttca 308
```

<210> 1865

<211> 288

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1865

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gtngcangcg tacgtaagct cggaattcgg ctcgaggcct tgccagaagg tgcattgtcc 60
aagtttcccta tgccattggt gtccctgagc cttgtcagt gtttgtggac acttatggaa 120
ctgggaagat tcctgacaag gagattcttc aaattgtgaa ggagaatttc gacttcagac 180
ctggaatgat caccattaac ttggacctta agaggggtgg ccataggttc ctcaagacag 240
ctgcttatgg acactttgga agggatgacc ctgacttcac ctgggaag 288
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<210> 1866

<211> 281

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1866

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gcgtacgtna gctcgggaatt cggctcgagn gcaagtttcc tatgccattg gtgtccctga 60
gcccttgtca gtgtttgtgg acacttatgg aactgggaag attcctgaca aggagattct 120
gcaaattgtg aaggagaatt tcgacttcag acctggaatg atcaccatta acttggacct 180
taagaggggt ggtcataggt tcctcaagac agctgcttat ggacactttg gaagggatga 240
tgcagacttc acctgggaag ttgtgaagcc actcaagtca g 281
```

<210> 1867  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1867

acttaacaac agcacaagc gggttactgt ctgttcaagc taccatctct gctctctctn 60  
 tcttagtgcc tcnttncag aagttaaaaa tggcccaaga aactttccta ttcacancct 120  
 gaatcagtga acgaggggca ccctgacaag ctctgtgacc agatctccga tgctgtgctc 180  
 gatgcatgct tgagcaggac cctgacagca aggttgccctg tgaaacctgc accaagacna 240  
 acatggtgat ggttttcgga gagatcacia ccaangccaa cgtggactat gaggagattg 300  
 tgngtgacac atgcaagaac attggtttgt ctccgatgat gtnngtcttn ntg 353

<210> 1868  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1868

aattttcacg ccgnccaggt ancggtcana gaattcccgg ggncgaccca cgcgtccncg 60  
 gacgcgtggg cggacgcgtg ggcggacgcg tgggcggctg cgagaagacg acagaagggg 120  
 gcagcgcttg agaccaagcc ccaactcaacc accacaccac tctctctgct cttcttctac 180  
 ctttcaagtt tttaaagtat taagatggca gagacattcc tatttacctc agagtcagtg 240  
 aacgagggac accctgacaa gctctgacgac caaatctccg atgctgtcct cgacgcttgc 300  
 cttgaacagg acccagacag caaggttgcc tgcgaaacat gcaccaaaga ccaacttggg 360  
 catggtcttc ggagagatta acancaaagg ccaacgttga ctacgaagaa gatcgtgcgt 420  
 gacacctgca ggaacatcgg ctccgtctca aacgatgtgg gacttgatgc tgacaactgc 480  
 aangtccttg taacaatgaa ca 502

<210> 1869  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1869

naangnagan gtcgcatgca cgcgtacgta agctcggaat tcggctcgag gtttttgaag 60  
 tatagagatg gcagagacat tcctatttcc ctcagagtca gtgaacgagg gacaccctga 120  
 caagctctgt gaccaaactct ctgatgctgt cctcgacgct tgcctcgaac aggaccaga 180  
 cagcaagggtt gcctgcgaaa catgcaccaa aaccaacttg gtcatggtct tcggagaaat 240  
 cacgaccaag gccatgttga ctacgagaag atagtgcgtg acacctgccg gaacatcggc 300  
 tttgtctcna acgatgtggg at 322

<210> 1870  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1870

tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 60  
 aaaatggccc aagaaaacttt cctattcaca totgaatcag tgaacgaggg gcaccctgac 120  
 aagctctgtg accagatctn cgatgctgtg ctcgatgcat gcttggagca ggaccctgac 180  
 agcaagggttg cctgtgaaac ctgcaccaag accaacaatgg tgatgggtttt cggagagatc 240  
 acaaccaagg ccaacgtgga ctatgagaaa gattgtgcgt gacacatgca ggaaccattg 300  
 ggttttgctc tgatgaatgt ggtcttggat gcttgacact gcaaggctct cgtcaacatt 360  
 tgagcaacag aagtcctgat antgnttcaa ggtgtgcacg ggcaccttac aaaagang 418

<210> 1871  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1871

tacctctcaa gtttttgaag tatagagatg gcagagacat tcctatttac ctcagagtca 60  
 gtgaacgagg gacaccctga caagctctgt gaccaaactct ctgatgctgt cctcgacgct 120  
 tgcctcgaac aggaccaga cagcaagggtt gcctgcgaaa catgcaccaa aaccaacttg 180



gtcatggtct tcggagaaat cacgaccaag gccaatgttg actacgagaa gatagtgcgt 240  
gacacctgca ggnacatcgg g 261

<210> 1872  
<211> 277  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1872

acgtcgcatg cacgcgtacg taagctcggg attcggctcg agcgagggggc accctgnaca 60  
agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag gaccctgaca 120  
gcaagggttg ctgtgaaacc tgcaccaaga ccaacatggt gatggttttc ggagagatca 180  
caaccaaggc caacgtggac tatgagaaga ttgtgctgta cacatgcagg aacattgggtt 240  
ttgtctctga tgatgttggt cttgatgctg acnactg 277

<210> 1873  
<211> 291  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1873

ctgnacgnnt gctcgggaatt cggctcgaga ccaaggccaa cgttgactac gagaagatag 60  
tgctgtgacac ctgcaggaac atcggcttcg tctcaaatga tgtgggactg gatgccgaca 120  
actgcaagggt cctcgtcaac attgagcann cagagccctg atattgctca ggggtgtacac 180  
ggccacctta ccaaaaaaacc tgaagaaatt ggtgctggtg accaggggtca catgtttggc 240  
tatgccactg atgaaacccc tgattgatgc cattgagcca tgttcttgca a 291

<210> 1874  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 1874

tagtgccctcc ttgccagaag ttaaaatggc ccaagaaact ttctattca catctgaatc 60  
agtgaacgag gggcacccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120

atgcttggag caggaccctg acagcaaggt tgctgtgaaa cctgcaccaa gaccaacatg 180  
 gtgatggttt tcggagagat cacaaccaag gccaacgtgg atatgagaag atgtgcgtga 240  
 cacatgcagg aacattggtt ttgctctgat gaggttggctt gatgctg 287

<210> 1875  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 1875

tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagc caaggttgat aggagtgggtg 60  
 cctacattgt gaggcaagct gcaaagagca ttgttgcaaa tggacttgct aggagggcaa 120  
 ttgtgcaagt ttcctatgcc attggtgtgc ctgagccctg tctgtgtttg ttgacactta 180  
 tggcactggg aagatccctg acaaggaaaat cctcagcatt gtgaaggaga gttttgactt 240  
 caggcctggc atgatctcca tc 262

<210> 1876  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1876

tncangcac gcgtacgtaa gctcgggaatt cggctcgagg gggnanctga caagctctgt 60  
 gancagatct ccgatgctgt gctcgatggc atgcttggag caggaccnt acagcaangt 120  
 tgctgtgan acctgnanca agaccaacat ggtgatggtt tncngagaga tcanaaccaa 180  
 ggccaacgtg gactatgaga agattgtgcg tgacacatgc aggaacattg gttttgtctc 240  
 tgatgatggtt ggtctgatgc tgacaatgca nagtcctcgt caacattgag cnacagagtc 300  
 ctgatattgc tcaag 315

<210> 1877  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1877

ggngnnntnn nggnaaactt tcacttgccg cgnccaggta anggtcagga attccccgggt 60  
 cgacccacgc gtccgtacgg ctgcgagaag acgacagaag ggggcagcgc ttnagatnan 120  
 nccccactca accaccacac cactctctct gctcttcttc tacctttcaa gtttttaaag 180  
 tattaagatg gcagagacat tcctatttac ctcagagtca gtgaacgagg gacaccctga 240  
 caagctctgc gaccanattc ccgatgctgt cctcgacgct tgccttgaac angaccaga 300  
 cagcaagggt gcctgcgaaa catgcaccaa naccaacttg gtcattgtct tcggagaaga 360  
 tnancaccaa ggccaacgtt gactacgaag aagatcgtgc gttgacacct gcangaacat 420  
 cggcttccgt ctcaaacgat gtgggacttg atgctgacaa ctgcaanggt cttgtnaaca 480  
 ttgancacc 489

<210> 1878  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1878

actttacgnt gccangtccc ggtcangaat ncccgggtcg acccacgcgt cngacggctg 60  
 cgagaagacg acagaagggg gcagcgcttg agaccaagcc ccaactcaacc accacaccac 120  
 tctctctgct cttcttctac ctttcaagtt tttaaagtat taagatggca gagacattcc 180  
 tattttacctc agagtcagtg aacgagggac accctgacaa gctctgcgac caaatctccg 240  
 atgctgtcct cgacgcttgc cttgaacagg acccagacag caaggttgcc tgcgaaacat 300  
 gcaccaagac caacttggtc atggtcttcg gagaagatna ccaccaaggc caacgttgac 360  
 tacgaagaag atngtgcgtg acacctgcan gaacatcngc ttcgtctcaa aagaatttgg 420  
 acttgatcct gaacaactgc aaaggctcct tgtaaacaat naancacc 468

<210> 1879  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1879

acgtcgcang cagcgtacg taagctcgga attcggctcg agcccccgag tacatgcccc 60

tcagccatgt ccttgcaacc aaacttggtg ctgcctcac agaggtagg aagaatggca 120  
cctgtgcttg gttgaggcca gatggaaga cacaagtaac cgtcgagtac tacaatgaca 180  
atggtgccat ggttccagtt cgtgtccaca ctgtcctaata ttccacccaa catgatgnga 240  
cgtgagcaat gatcaaattg ctgcggacct taaagagcat gttatcaagc ctgtcattcc 300

<210> 1880  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1880

ttcnaactcn taccgcccag gaaccggtac aagaattccc ggctcgaccc acgcgtcang 60  
tacggctgcg agaagacgac agaagggggc agcgcttgat ttgaggccag gcaagcccca 120  
ctcaaccacc acacctctcc tcgttcacgc tacccttttc tgctcttctt ctacctttca 180  
agttttaaaa gtataaagat ggacagagaca ttcctattta cctcagagtc ggtgaacgag 240  
ggacaccctg acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgcctcgag 300  
caggacccag acagcaaagt tgcctgcgaa acatgcacca aaaccaactt ggtcatggtc 360  
ttcggagaaa tcacgaccaa ggccaacggt gactacgaga agatagtgcg tgacacctgc 420  
aagaacaacc ggtttctccc naattgaatn tgggactgga tgccgacaac tgcaang 477

<210> 1881  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1881

tgcccttggc tgagacctga tggcaagacc caagtcactg ttgagtacta caatgacaag 60  
ggtgccatgg ttccaatccg cgtccacact gtgctcatct ccacacagca tgatgagnct 120  
gtcacaaatg ntgagattgc agctgatctt aaagaacacg tgattaagcc tgtgattcct 180  
gagaagtacc ttgatgagag accattttcca tttgaaccct tccnggcagg ttgtcattgg 240  
agggcggcac ggggatgng 259

<210> 1882

<211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1882

ccnggggtcac ntgtttggct ntgccncgga cgagaccccn gnnttgatgc cattgngtca 60  
 tgttcttgcn actnanctcg gtgctcgtct caccgaggtt cgcnagaacg gaacctgccc 120  
 ntggttgagg cctgatggga agacccaagt gactgttgag tattacnntg acaacgggtgc 180  
 catngttcca gttcgtgtcc nactgtgtct tatctccacc caacntgatg ngntgngacc 240  
 aacgacgaaa ttgc 254

<210> 1883  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1883

nanactnaat gcacgcgtac gtaagctcgg aattcggctc gagagacagc aaagttgcct 60  
 gcgaaacatg caccaaaacc aacttggtca tgggtcttcgg agaaatcacg accaaggcca 120  
 acgttgacta cgagaagata gtgcgtgaca cctgcaggaa catcggcttc gtctcaaatg 180  
 atgtgggact ggatgccgac aactgcaagg tcctcgtcaa cattgagcag cagagccctg 240  
 atattgctca ggggtgtacac ggccacctta ccaaaaaac 279

<210> 1884  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1884

tgcangcac gcgtacgtaa gctcgggaatt cggctcgagc tcgagccgta tctctctggt 60  
 ctcttctacc tctcaagttt ttgaagtata gagatggcag agacattcct atttacctca 120  
 gagtcagtga acgagggaca ccctgacaag ctctgtgacc aaatctctga tgctgtcctc 180  
 gacgcttgcc tcgaacagga cccagacagc aagggtgcct gcgaaacatg caccaaaacc 240  
 aacttggtca tgggtcttcgg agaaatcacg accaaggcca atgttgacta cgagaagata 300

gtgcgtgaca cct 313

<210> 1885  
<211> 299  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1885

acgtcgcacg cagcgtacg tnagctcgga attcggctcg agcttctacc tctcaagttt 60  
ttgaagtata gagatggcag agacattcct atttacctca gagtcagtga acgagggaca 120  
ccctgacaag ctctgtgacc aaatctctga tgctgtcctc gacgcttgcc tcgaacagga 180  
cccagacagc aagggttcct gcgaaacatg caccaaaacc aacttgggtca tgggtcttcgg 240  
agaaatcacg accaaggcca atgttgacta cgagaagata gtgcgtgaca cctgcagga 299

<210> 1886  
<211> 301  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1886

nntaannntn agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gaaagtataa 60  
agatggcaga gacattccta tttacctcag agtcggtgaa cgaggggacac cctgacaagc 120  
tctgcgacca natctccgat gctgtcctcg acgcttgctc cgagcaggac ccagacagca 180  
aagttgcctg cgaaacatgc accaaaacca acttgggtcat ggtcttcgga gaaatcacga 240  
ccaaggccaa cgttgactac gagaagatag tgcgtgacac ctgcaggaac atcggcttcg 300  
t 301

<210> 1887  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1887

tnnnnnaact nagttctccg cngcctgna angtaagan gncccgggcc gaccacgcg 60

tcctacggc tgcgagaaga cgacagaagg gggcagcgct tgatttgagg ccaggcaagc 120  
 cccactcaac caccacacct ctctcggtt acgctacccc tttctgctct tcttctacct 180  
 ttcaagtttt aaaagtataa agatggcaga gacattccta tttacctcag agtcggtgaa 240  
 cgaggggacac cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct 300  
 cgagcaggac ccagacagca aagttgcctg cgaaacatgc accaaaacca acttgggtcat 360  
 ggtcttcgga gaaatcacga ccaaggccaa cgttgactac gagaagatag tgcgtgacac 420  
 ctgcangaac atcggttctg tctcaaaatg atgtnggact ggattccac aactgcaaag 480  
 ncctccenta aaattttgcc anaanccc 508

<210> 1888  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1888

gncgcacgcg tacgtaagct cggaattcgg ctcgagggca ggtttgtcat tggagggccg 60  
 catggcgatg ctggtctcac cggccgcaag atcatcatcg acacctatgg aggatgggggt 120  
 gcacatggtg gtggtgncct tctctgggaa ggatcctacc aaggttgnta ggagtgggtgc 180  
 ctacattntg aggcaagctg caaagagcat tgttgcaa at ggacttgcta ggagggcaat 240  
 tgtgcaagtt tcctatgcca ttggtgtgcc tgagccct 278

<210> 1889  
 <211> 280  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1889

cnttggtga gacctgatgg caagacccaa gtcantgttg agtactacaa tgacaagggt 60  
 gccatggttc caatncgct ccacantgtg cttcatntnc acacagcatg atgagtgngt 120  
 nanaaatgat gagattgcag ctgatcttaa agaacacgtg attaagcntg tgattnctga 180  
 gaagtacctt gatgagaaga ccattttcca tttgaaccct tntgggcagg tttgtcatgg 240  
 agggccgcat ggcgattttg gtgtnanggc ngnaagatcc 280

<210> 1890  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1890

```

nncncangcnc gcnnncgtga gctcgggnatt cggctcgagg tttttgangt atagagatgg    60
cagagacatt cctattttacc tcagagtcag tgaacgaggg acaccctgan aagctctgtg    120
accaaattctc tgatgctgtc ctcgacgctt gcctcgnaca ggaccagac agcaagggtg    180
cntgcgaaac atgcaccaaa accaacttgg tgcattggtct tcggagaaat caccaccaag    240
gccaatgttg actacgagaa gatagtgcgt gacacctgca ggaacatcgg ctttgtctca    300
aacgatgtgg                                     310

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<210> 1891  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1891

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cagcangcac gcgtacgtaa gctcgggaatt cggctcgaga ccaacttggn atggtcttcg    60
gagaaatcac gaccaaggcc aacgttgact acgagaagat agtgcgtagac acctgcagga    120
acantcggct tcgtctcaaa tgatgtggga ctggatgccg acaactgcaa ggtcctcgtc    180
aacattgagc agccgagccc tgatattgct cagggtgtac acggccacct taccaaaaaa    240
cctgaagaaa ttggtgctgg tgaccagggt cacatgtttg gctatgcat    290

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<210> 1892  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1892

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tttaaactct ccgcggtcag gtaacggten gngaattccc gggncgaccc angcgtccan    60
nccaggcgtc agcccaacgc gtcngtgngg ctgcnagaag annacanaag ggggcagcgc    120
ttgatttnag gccaggcang cccactcat ccancanacc tctcctcgtt cangetnccc    180

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ctttctgccc ttntctacc tttcangttt taaaagtata nagatggcag agacattcct 240  
 atttacctca gagtcggtga acgagggaca ccctgacaag ctctgctacc aaatctccga 300  
 tgctgtcctc gacgcttgcc tcgagcanga cccagacagc naagttgcct gcgaaacatn 360  
 caccatancc aacttggtca tggctctcgg aganatcacg accaaggcca acgttgacta 420  
 cgaagaagat agtgcgtagac acctgcagga acatcngntt cgtctcaaata tatgtgggac 480  
 tggatgccan canctgcaag gt 502

<210> 1893  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1893

tcgcntgcac gcgtacgtaa gctcgggaatt cggctcgagn aagttgcctg cganacatgc 60  
 accaanacca acttggtcat ggtcttcgga gaaatcacga ccaaggccaa cgttgactac 120  
 gagaagatag tgcgtgacac ctgcaggaac atcggcttcg tctcaaata tgtgggactg 180  
 gatgccgaca actgcaaggt cctcgtaaac attgagcngc agagccctga tattgctcag 240  
 ggtgtacacg gccaccttac caaaaaacct gaagaaannc ntgctg 286

<210> 1894  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1894

ncgcngcacg cgtacgtaag ctcggaattc ggctcgagca caaagcgggt tactgtctgt 60  
 tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt aaaatggccc 120  
 aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac aagctctgtg 180  
 accagatctc cgatgctgtg ctcgatgcat gcttggagca ggaccctgac agcaagggtg 240  
 cctgtgaaac ctgcaccaag accaacaatg tgatgggttt cggagagatc acaaccaagg 300  
 ccaacgtgga ctatgagaag attgtg 326

<210> 1895  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1895  
  
 tcgnangcaa gcncngaant cngcncnagc gnnnntagnc nanngtgntt accggcngca 60  
 agatcantat cgatacttat nggaggatgn ngtgctcatg gtngtggtgc tttctccggc 120  
 aaggacccta ccaaggttga taggagtggg gcttacattg tgagacaggc tgctaaganc 180  
 attgtggcaa gtggactngc cagaagggtc attgtgcaag tgtcttatgc cattgggtgtg 240  
 cctgagcctt tgtctgtgtt tgttgacacc tatggcactg ganagatccc tgacaaggag 300  
 atct 304

<210> 1896  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1896  
  
 ncgtcgcacg cacgcgtacg tnagctcgga attcggctcg agctgtgctt ggctgaggcc 60  
 agatggcaag acacaagtaa ctgttgagta ctacaatgac aatggtgcca tggttccagt 120  
 tcgtgtccac actgtcctaa tttccaccca acatgatgac nangtgagca atgaccaaat 180  
 tgctgctgac cttaaagagc atgttatcaa gcctgtcatt cctgagaagt acctggatga 240  
 gaagaccatc ttccacctta acccttctgg ccg 273

<210> 1897  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1897  
  
 gtcgcatgca cgcgtacgta agctcggaat tcggctcgag cagcacaaag cgggttactg 60  
 ncctgttcaa gctaccatct ctctctctct ttcttagtgc ctcttgcca gaagttaaaa 120  
 tggccaaga aactttccta ttcacatctg aatcagtga cagggggcac cctgacaagc 180

tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca 240  
 aggttgccctg tgaaacctgc accaagacca acatgggtgat ggttttcggg gagatcacaa 300  
 ccaaggccaa cgtggactat gagaagattg tgcg 334

<210> 1898  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1898

gtcgcngcac gcgtacgtaa gctcgggaatt cggctcgagn cctcacagag gtttaggaaga 60  
 atggcacctg tgcttggttg aggccagatg gtaagacaca agtaaccgtc gagtactaca 120  
 atgacaatgg tgccatgggtt ccagttcgtg tccacactgt cctaatttcc acccaacatg 180  
 acgacctgtg agccatgatc aaattgctgc ggaccttaaa gancatgtta tcaagcctgt 240  
 cattcctgag aagtaccttg atgagaagac catcttccac ttaacccttc tgg 293

<210> 1899  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1899

cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag 60  
 tataaagatg gcagagacat tcctatttac ctgagagtcg gtgaacgagg gacaccctga 120  
 caagctctgc gaccaaactc ccgatgctgt cctcgacgct tgccctcgagc aggaccaga 180  
 cancaaagtt gcctgcgaaa catgcaccaa aaccaacttg gttcatgggc ttcggagaaa 240  
 tcacgaccaa ggccaacggt gactacgaga agatagtgcg tgacacctgc aggaacatcg 300  
 gcttcgtctc aaatga 316

<210> 1900  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1900

ttcctatttta cctcagagtc ggtgaacgag ggacaccctg acaagctctg cgaccaaadc 60  
tccgatgctg tcttacgacg cttgcctcga gcaggaccca gacagcaaag ttgcctgcga 120  
aacatgcacc aaaaccaact tggatcatggt cttcggagaa atcacgacca aggccaacgt 180  
tgactacgag aagatagtag gtnacactgg agganacatg ggcttcgtct naaatgntgn 240  
gggactggat cccganaant gaaggtcncg aaaatntga 279

<210> 1901  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 1901

cgctgcacgc gtacgtaagc tcggaattcg gctcgagatg ctgtcctcga cgcttgcttc 60  
gagcaggacc cagacagcaa agttgcctgc gaaacatgca ccaaaaccaa cttgggtcatg 120  
gtcttcggag aaatcacgac caaggccaac gttgactacg agaagatagt gcgtgacacc 180  
tgcaggaaca tcggcttcgt ctcaaagtat gtgggactgg atgccgacaa ctgcaagggt 240  
cctcggtcaa cattgagcag cagagccctg atattgctca ggggtg 285

<210> 1902  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 1902

gtcgcatgca cgcgtacgta agctcggaaat tcggctcgag caggacccag acagcaaagt 60  
tgcttcgcga acatgcaaaa accaacttgg tcatggtctt cggagaaatc acgaccaagg 120  
ccaacgttga ctacgagaag atagtgcgtg acacctgcag gaacatcggc ttcgtctcaa 180  
atgatgtggg actggatgcc gacaactgca aggtcctcgt caacattgag cagcagagcc 240  
ctgatattgc tcagggtgta cagggccacc ttaccaaaaa ac 282

<210> 1903  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 1903

tttactnnnc cngngccatg taanagtana gaagtcccgg gccgaccac gngtcnntac 60  
ggctgcgaga agacgacaga agggggcagc gcttgatttg aggccaggca agccccactc 120  
aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcna cctttcaagt 180  
tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggg gaacgaggga 240  
caccctgaca agctctgcga ccaaattctc gatgctgtcc tcgacgcttg cctcgagcat 300  
gaccagaca gcaaagttgc ctgcgaaaca tgcaccagaa ccaacttggg catggtcttc 360  
ggagaaatca cgaccatggg caacgttgac taccagaaga taagtgcgtg acacctgcag 420  
gaacatcggn ttctgtctcaa atgatgtggg actggatgcc nacaatctgg anangg 476

<210> 1904

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1904

aactttctgtg ccagnccggg caagaatncc gggctgaccc acgctccgt acggctgcga 60  
gaagacgaca gaaggggtacg gctgcgagaa gacgacagag ggggcagcgc ttgatttgag 120  
gccaggcaag cccactcaa ccaccacacc tctcctcggt cagctaccc ctttctgctc 180  
ttcttctacc tttcaagttt taaaagtata aagatggcag agacattcct atttacctca 240  
gagtcgggtga acgagggaca ccctgacaag ctctgcgacc aaatctccga tgctgtcctc 300  
gacgcttgcc tcgagcagga ccagacagc aaagttgcct gcgaaacatg caccaaaacc 360  
aacttgggtca tgggtcttcgg agaaatcacg accaaggcca acgttgacta cgaagaagat 420  
agtgcgtgac acctgcagga acatcggtt cgtctcaaat gatgtgggac tgggatgccg 480  
acaactgcaa ngtcct 496

<210> 1905

<211> 247

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1905

nannatcgcn tgcacgcgta cgtnagctcg gaattcggct cgagnntgga ttcattctctg 60  
atgatgttgg tcttgatgct gacaaatgca aggtgttggc caacattgag cagcagagcc 120  
ctgatatcgc ccaggggtgtg cacgggtcact tcaccaagcg ccagaggag gttgggtgctg 180  
gtgaccaggg tcacatgttt ggctatgcca ctgatgaaac ccctgagtac atgcccctca 240  
gccatnt 247

<210> 1906  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1906

atncacatgt cacangcacg cgtacgtaag ctcggaattc ggctcgagnc tntcncttgt 60  
ntgtgnatgc tgacacttat ggcaactgga agatccctga caaggaaatc ctcagnattg 120  
tgaaggagag ttttgacttc aggcctgggn tgatctccat caaccttgnt ctcaagaggg 180  
gtggaaatgg caggttcttg aagactgctg catatggnc ctttggcaga natgaccnng 240  
acttcacatg ggaantggtn angcgactca aggggganna ggtaccagct tanctanaag 300  
ggnctcct 308

<210> 1907  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1907

anognactgc acgcgtacgt aagctcgga ttcggctcga gaaagtataa agatggcaga 60  
gncattccta tttaacctcag agtcggtgaa cgagggacac cctgacaagc tctgcgacca 120  
aatctccgat gctgtcctcg acgcttgctt cgagcaggac ccagacagca aagttgcttg 180  
cgaaacatgc accaaaacca acttgggtcat ggtcttcgga gaaatcacga ccaaggccaa 240  
cgttgactac gagaagatat ngngtgacac ctgcaggaac atcggtctcg tc 292

<210> 1908  
<211> 300  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1908

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agtcgcangc acgcgtacgt aanctcggaa ttcggctcga ggtttggcta tgccactgta 60
tgaaaccctt gagtacatgc ccctcagcca tgtccttgca accaaactcg gtgctcgcct 120
caccgaggtt aggaaaaatg gtacctgtgc ttggctgagg ccagatggca agacacnagt 180
aactgttgag tactacaatg acaatgggtc catgggtcca gttcgtgtcc aactgtcct 240
aatntncacc caacatgatg anncngtgag caatgaccaa attgctgctg gaccttaaag 300
```

<210> 1909

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1909

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atttcaggtg gtcttatagg ccaanaatga cgtaagacgc acgcgtncgt aanctcggaa 60
ttcggctcga gggccanggc aagccccact caaccaccac acctctcctc gttcacgcta 120
cccctttctg ctcttcttct acctttcaag ttttaaaagt ataaagatgg cagagacatt 180
cctatttacc tcagagtcgg tgaacgaggg acaccctgac aagctctgcg accaaatctc 240
cgatgctgtc ctcgacgctt gcctcgagca ggacccanac agcaaagttg cctgcgaaac 300
atgcacaaaa accaacttgg ncatgggtctt cggagaaatc acgaccaagg ccaacgttga 360
ctacgagaag atagtgcgtg acacctgcag gaacatcggg cttcgtctca aatgatgtgg 420
gactggatgc cgacaantgc aangttctcg tcaacant 458
```

<210> 1910

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1910

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ngnncangc negcntacgt nanctcggaa ttcggctcga gctaccatct tctctctctc 60
ttnccttagtg cctccttgcc agangtnaaa atggcccaag aaacttncct atncacatct 120
gantcagtga acgaggggca ccctgacaag ctctgtgacc agatctccga tgctgtgctc 180
```

gntgcatgct tggagcagga ccctgacagc aaggttgctt gtgaaacctg caccaagacc 240  
 aacatggtga tggtttttcgg agagatcaca accaaggcca acgtggacta tgagaagatt 300  
 gtgcgtga 308

<210> 1911  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1911

cgtgtacgta agctcggaat tcggctcgag aagtttttga agtatagaga tggcagagac 60  
 attcctatatt acctcagagt cagtgaacga gggacaccct gacaagctct gtgaccaaatt 120  
 ctctgatgct gtcctcgacg cttgcctcga acaggaccca gacagcaagg ttgcctgcga 180  
 aacatgcacc aaaaccaact tggatcatggt cttcggagaa atcacgacca aggccaatgt 240  
 ngactacgag aagatagtgc gtgacactgc aggacatngg tttgtccnaa cgngnggncn 300  
 gncccc 306

<210> 1912  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1912

aatgncaaac tncncagccg ncctgncnng gtcataagggn ccgaacngacc cgtccnaacc 60  
 acgnatccgc tgnacantgn gcngacgcgt gggctgcnag aagacgacag aagggggcag 120  
 cgcttgatatt gaggccaggc aagccccact caaccaccac acctctcctc gttcacgcta 180  
 cccctttctg ctctttctct acctttcaag ttttaaaagt ataaagatgg cagagacatt 240  
 cctattttacc tcagagtcgg tgaacgaggg acacctgac aagctctgcg accaaatctc 300  
 cgatgctgtc ctgcagcgtt gcctcgagca ggaccacagac agcaaagttg cctgcgaaac 360  
 atgcacaaaa accaacttgg tcatggtctt cggagaaatc acgaccaang ccaacgttga 420  
 ctacgagaag atagtgcntg acacctgcac ggaaatnggg ttctctctcaa ttaatttgga 480  
 acgggtttcc cnaaaactnc aagg 504



<210> 1913  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1913

tcnatgcacg cgtacgtaag ctcggaattc ggctcgagtc aaggtgtgca cggccacctt 60  
 cacaaagagg cctgaggaga ttggtgctgg tgaccaaggt catatgttcg gctatgccac 120  
 tgacgagact cccgagctca tgcccttgag ccatgtcctt gccacgaagc cggtgccaag 180  
 ctcaccgagg ttcggaagaa cgggacatgc ccttggtctga gacctgatgg caagacccaa 240  
 gtcactgttg agtactacaa tgacaagggt gccatgggtc caatccgcg 289

<210> 1914  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1914

gnattgnagt acgcgtacgt nagctcggaa ttcggctcgn ggacttaaca acaacncana 60  
 gnggggttann gtctgttcaa gctaccatct ctctctctct ttcttagtgn ctcccttgca 120  
 gaagttaana tggcccaaga nactttccta ttcacatctg aatcagtga cgagggggcac 180  
 cctgacaagc tctgtgacca natctccgat gctgtgctcg atgcatnctt ggagcaggac 240  
 cctgacagca aggttgcttg tgaaacctgc accaanacna acatggtgat tgttttcgga 300  
 gagatcaca ccaaggccaa cgttgactat gagaagattg tgcnt 345

<210> 1915  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1915

gtcgcacgca cgcgtacgta agctcggaa tccgctcgag cttacaaca gcacaaagcg 60  
 ggttactgtc tgttcaagct accatctctc tctctctttc ntagtgctc cttgccagaa 120

gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatgg tttcggagag 300  
atcacaacca aggccaacgt ggactatgag a 331

<210> 1916  
<211> 244  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1916

tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagc caaggccaac gtagactatg 60  
aaaagattgt ccgcgacaca tgccgcgaaa ttggattcat ctctgatgat gttgggtcttg 120  
atgctgacaa atgcaagggtg ttggatcaaca ttgagcaaca gagcccggat atcgcccagg 180  
gtgtgcacgg ccacttcacc aagcgcccag aggagggttg tgctgggtgac cagggtcacn 240  
tggt 244

<210> 1917  
<211> 290  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1917

nnngtngcat gcncgcgtac gtaagctcng nntncggctc tntgcctata tcgtgagnca 60  
ggctgcnaag agtggttggtg naaatggcct tgccagaagg tgcatgtgcc nagtttccta 120  
tnccattggt gtccctgagc ccttgtcagt gtttatggac acttatggaa ctgggaanat 180  
tcctgacaag gngattcttc aaattgtgna ggagaatttc gacttcagac ctggaatgat 240  
caccattaac ttggacctta agaggggtgg ccataggttc ctcaagacag 290

<210> 1918  
<211> 314  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1918

nnaagttnan gcacgcntac gtaagctcgg aattcggctc gaggttactg tctgttcaag 60  
ctaccatctc tctctctctt tcttagtgcc tccttgccag aagttaaaat ggcccaagaa 120  
actttcctat tcacatctga atcagtgaac gaggggcacc ctgacaagct ctgtgaccag 180  
atctccgatg ctgtgctcga tgcattgctt gagcaggacc ctgacagcaa ggttgccctgt 240  
gaaacctgca ccaagaccaa catgggtgatg gttttcggag agatcacaac caaggccaac 300  
gtggactatg agaa 314

<210> 1919  
<211> 311  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1919

tattcnnnac gtcgcatgca cgcgtacgta agctcggaat tcggctcgag cactctctct 60  
gctcttcttc tacctttcaa gtttttaaag tattaagatg gcagagacat tcctatttac 120  
ctcagagtca gtgaacgagg gacaccctga caagctctgc gaccaaactc ccgatgctgt 180  
cctcgacgct tgccttgaac aggacccaga cagcaagggt gcctgcgaaa catgcaccaa 240  
gaccaacttg gtcattggtc tcggagagat caccaccaag gccaacgttg actacgagaa 300  
gatcgtgcgt g 311

<210> 1920  
<211> 281  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1920

ngcangcacg cgtacgtaag ctcggaattc ggctcgaggc ctcgagcagg acccagacag 60  
caaagttgcc tgcgaaacat gcacaaaaac caacttggtc atggtcttcg gagaaatcac 120  
gaccaaggcc aacgttgact acgagnagat agtgcgtgac acctgcagga acatcggtt 180  
cgtctcaaat gatgtgggac tggatgccga caactgcaag gtctcgtca acattgagca 240  
gcaganccct gatattgctc aggggtgtnc ccggccacct t 281

<210> 1921  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1921

tccgaagtct cangcacgcg tacgtaagct cggaattcgg ctcgagntac ctatgggtggg 60  
 tgggggtgctc atgggtggagg tgccttttca gggaaggacc ctaccaaggt tgacagaagt 120  
 ggtgcctata tcgtgaggca ggctgcaaag agtggttggtg caaatggcct tgccnaaang 180  
 gtgcnntggc cnangttttn aaggccatng gtgtccctga gcccttgtca gtgtttgtgg 240  
 acacttatgg aactgggaag attcctgaca agngntttct tcaaattgtg aaggngantt 300  
 cngncttcng acntg 315

<210> 1922  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1922

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ggtggaggtg ccttttcagg 60  
 gaaggaccct accaaggttg acagaagtgg tgcctatatc gtgaggcagg ctgcaaagag 120  
 tgttggtggca aatggccttg cagaaggtgc attgtccaag tttcctatgc cattgggtgtc 180  
 cctgagccct tgtcagtgtt tgncgacact tatggaactg ggaagattcc tgacaaggag 240  
 attcttcaaa ttgtgaagg 259

<210> 1923  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1923

agtcgcatgc acgcgtacgt aagctcgga attcggctcg agacctctca agtttttgaa 60  
 gtatagagat ggcagngaca ttcctattta cctcagagtc agtgaacgag ggacaccctg 120  
 acaagctctg tgaccaaata tcatgctgtc ctcgacgctt gcctcgaaca ggacccagac 180

agcaaggttg cctgcgaaac atgcaccaaa accaacttgg tcatggtctt cggagaaatc 240  
 acgaccaagg ccaatgttga ctacgagaag atagtgcgtg acacctgcag gaacatcggt 300

<210> 1924  
 <211> 290  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1924

anncgcangc acgcgtacgt aagctcggaa ttcggctcga gtcaagtttn tgaagtatag 60  
 agatggcaga gacattccta ttacctcag agtcagtga cgaggacac cctgacaagc 120  
 tctgtgacca aatctctgat gctgtcctcg acgcttgctt cgaacaggac ccagacagca 180  
 aggttgcttg cgaaacatgc accaaaacca acttgggtcca tggctcttcgg agaaatcacg 240  
 accaaggcca atgttgacta cgagaagata gtgcgtgaca cctgcaggaa 290

<210> 1925  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1925

ngtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gcggctcgag cggctcgagg 60  
 gcaaattggc ttgccagaag gtgcattgtc caagtttctt atgccattgg tgtcnctgag 120  
 cccttgtcag tgtttgtgga cacttatgga actgggaaga ttcttgacaa ggagattctt 180  
 caaattgtga aggagaattt cgacttcaga cctggaatga tcaccattaa cttggacctt 240  
 aagaggggtg gccatagggt cctcaagaca gctgcttatg gacactttgg aagg 294

<210> 1926  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1926

anctttgtac gcgccccagg taccggtaaa ggaattccng gctcgacca cgcgtaagcc 60  
 cacgcgtccg tacggctgcg agaagacgac agaagggggc agcgcttgat ttgaggccag 120

gcaagcccca ctcaaccacc acacctctcc tcgttcacgc tacccttttc tgctcttctt 180  
ctacctttca agttttaaaa gtataaagat ggcagagaca ttctatttta cctcagagtc 240  
ggtgaacgag ggacaccctg acgagctctg cgaccaaata tccgatgctg tcctcgacgc 300  
ttgcctcgag caggaccocag acagcaaagt tgcttgcgaa acatgcacca aaaccaactt 360  
ggtcatggtc ttcgagagaaa tcacgaccaa ggccaacgtt gactacgaag aagatagtagc 420  
gtgacacctg cangaacatc ggcttcgtct caaatgatgt tggaactgga tgc 473

<210> 1927  
<211> 490  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1927

attnnacctt cccgngcccn gtaaagggtca aaganttccc gggncgaccc acgcgtccgc 60  
ccacgcgtcc gtacggctgc gagaagacga cagaaggggg gcagcgcttg atttgaggcc 120  
aggcaagccc cactcaacca ccacacctct cctcgttcac gctaccctt tctgctcttc 180  
ttctaccttt caagttttaa aagtataaag atggcagaga catttctatt tacctcagag 240  
tcggtgaacg agggacaccc tgacaagctc tgcgacaaaa tctccgatgc tgcctcgac 300  
gcttgctctg agcaggaccc agacagcaaa gttgcctgcg aaacatgcac caaaaccaac 360  
ttggtcatgg tcttcggaga aatcacgacc aaggccaacg ttgactacga agaagatagt 420  
gcgtgacacc tgcaggaaca tcggcttcgt ctcaaatga tgtgggactg gatgccgaca 480  
actgnnangg 490

<210> 1928  
<211> 320  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1928

aanagtcgca ngcacgctta cgtnaagctc ggaattcggc tcgagaaagc gggntactgt 60  
ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga agttaaaatg 120  
gccaagaaa ctttcttatt cacatctgaa tcagtgaacg aggggcaccc tgacaagctc 180

tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc tgacagcaag 240  
 gttgcctgtg aaacctgcac caagaccaac atgggtgatgg ttttcggaga gatcacaacc 300  
 aaggccaacg tggactatgn 320

<210> 1929  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1929

gtcgcgatgca cgcgtacgta agctcggaat tcggctcgag ggagattctc aacattgtga 60  
 aggaaaactt tgatttcagg cctgggatga tctccatcaa ccttgatctc aagaggggtg 120  
 gaaataacag gtttttgaag actgctgcct atggacactt tggaagagaa gaccctgact 180  
 tcacatggga agtgggtcaaa cccctcaagt gggagaaggc ctaagtaatt cattccactg 240  
 ctctatgctg gaagtttttt gagcgttgcc cttataatat gtctaataatc catn 294

<210> 1930  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
 <400> 1930

gtcgcgatgca cgcgtacgta agctcggaat tcggctcgag ggagattctc aacattgtga 60  
 aggaaaactt tgatttcagg cctgggatga tctccatcaa ccttgatctc aagaggggtg 120  
 gaaataacag gtttttgaag actgctgcct atggacactt tggaagagaa gaccctgact 180  
 tcacatggga agtgggtcaaa cccctcaagt gggagaaggc ctaagtaatt cattccactg 240  
 ctctatgctg gaagtttttt gagcgttgcc cttataatat gtctaataatc cataactttc 300  
 cacg 304

<210> 1931  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1931

cgcatgcacg cgtacgtnag ctcggaattc ggctcgagct tctacctctc aagtttttga 60  
 agtatagacn ncggcagaga cattccctat ttaccttcag agttcagtga acgagggaca 120  
 cnctgacaag ctctgtgacc aaatctctga tgctgtcctc gacgcttgcc tcgaacagga 180  
 cccagacagc naggttgcct gcgaaacatg caccaaaacc aacttgggtca tggctcttcgg 240  
 agaaatcacg accaaggcca atgttgacta cgagaagata gtgcgtgaca cctgcaggaa 300  
 catcggcttt gtctcaaacg a 321

<210> 1932  
 <211> 281  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1932

cgcatgcacg cgtacgtaag ctcggaattc ggctcgagct tctacctctc aagtttttga 60  
 agtatagaga tggcagagac attcctatatt acctcagagt cagtgaacga gggacaccct 120  
 gacaagctct gtgaccaaatt ctctgatgct gtcctcgacg cttgcctcga acaggaccca 180  
 gacagcaagg ttgcctgcga aacatgcacc aaaaccaact tggatcatggc cttcggagaa 240  
 atcacgacca aggccaatgt tgactacgag aaganagtgc g 281

<210> 1933  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1933

natacatgca cgcgtacgta agctcggaat tcggctcgag ctctctgctc ttcttctacc 60  
 tttcaagttt ttaaagtatt aagatggcag agacattcct atttacctca gagtcagtga 120  
 acgagggaca ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc 180  
 ttgaacagga cccagacagc aaggttgcct gcgaaacatg caccaagacc aacttgggtca 240  
 tggctcttcgg agagatcacc accaaggcca acgttgacta cgagaagatc gt 292

<210> 1934  
 <211> 266



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1934  
  
 ctctgcgncc aaatctccga tgctgtcctc gacgcttgcc ttgaacagga cccagacagc 60  
 aaggttgcct gcgaaacatg caccaagacc aacttggtca tggctcttcgg agagatcacc 120  
 accaaggcca acgttgacta cgagaagatc gtgcgtgaca cctgnaggaa catcggcttc 180  
 gtctcaancg atgtgggact tgatgctgac aactgccaaag gtncntgnna acattgaggn 240  
 nncagagccc tggatattgc ccaggg 266

<210> 1935  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1935  
  
 cgcennaangc gtacgtnagc tcggaattcg gctcgagncg ggttactgtc tgttcaagct 60  
 accatctctc tctctctttc ttagtgcttc cttgccagaa gttaaaatgg cccaagaaac 120  
 tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctct gtgaccagat 180  
 ctccgatgct gtgctcgatg catgcttgga gcaggaccct gacagcaagg ttgcctgtga 240  
 aacctgcacc aagaccaaca tggatgatgg tttcggagag atcacaacca aggccaacgt 300  
 ggactatgag 310

<210> 1936  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1936  
  
 gtcgcangca cgcgtacgta agctcggaat tcggctcgag gcaacagagt cctgatattg 60  
 ctcaaggtgt gcacggccac ctcacaaaga ggcctgagga gattggtgct ggtgaccaag 120  
 gtcatatgtt cggctatgcc actgacgaga ctcccgagct catgcocttg agccatgtcc 180  
 ttgccacgaa gctcggtgcc aagctcaccg aggttcggaa gaacgggaca tgcccttggc 240

tgagacctga tggaccactg ntgantgatt acgatcacga ttaattcggc cccgacagt 299

<210> 1937

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1937

ncnnacgcan gcacgcgtac gtnagctcgg aattcggctc gagctctcaa gtttttgaag 60

tatagagatg gcagagacat tcctatttac ctcagagtca gtgaacgagg gacaccctga 120

caagcttctg tgaccnaaat ctctgatgct gtcctcgacg cttgcctcga acaggaccca 180

gacagcaagg ttgcctgcga aacatgcacc aaaaccaact tggtcatggt cttcggagaa 240

atcacgacca aggccaatgt tgactacgag aagatagtgc gtgacacctg caggaacatc 300

ggctttgtct t 311

<210> 1938

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1938

gatgcacgcg tacgtaagct cggaattcgg ctcgagcaca aagcgggtta ctgtctgttc 60

aagctaccat ctctctctct ctttcttagt gcctccttgc cagaagttaa aatggcccaa 120

gaaactttcc tattcacatc tgaatcagtg aacgaggggc accctgacaa gctctgtgac 180

cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag caangttgcc 240

tgtgaaacct gcaccaagac caacatggta tggttttcgg agagatcaca accaaggcca 300

acgtggacta tgagaagat 319

<210> 1939

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1939

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag cggctcgagg cacgctctgc 60

ttccagcgag tgttctttct tcgtttcaac accttaattt gcanacgctg cttcttcccg 120  
 cttgagaaat ggcacaagaa acctttctat tcacatctga atctgtaaac gagggtcacc 180  
 ccgacaagct gtgcgaccag atctctgatg cagtgtcga tgcgtgcctt gaacaggacc 240  
 ctgacagcaa gggtgcctgt gagacatgca ccaagaccaa catggtcatg gtctttggag 300  
 agatcacaac caagg 315

<210> 1940  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1940

cgcangcacg cgtacgtaag ctcggaattc ggctcgaggt cttgatgctg acaactgcaa 60  
 ggtcctcgtc aacattgagc aacagagtcc tgatattgct caaggtgtgc acggccacct 120  
 cacaaagagg cctgaggaga ttggtgctgn tgaccaaggt catatgttcg gctatgccan 180  
 tganganact cccgagctca tgcccttgag ccatgtcctt gccacgaagc tcggtgccaa 240  
 gtctcaccga ggtnngnag aacgggacat cccctgggnt gagacntgnt ggcaaagncc 300  
 aaa 303

<210> 1941  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1941

tcgctgcacg cgtacgtaag ctcggaattc ngctcgaggc cccactcaac caccacacct 60  
 ctccctcgtt acgtacccc tttctgctct tcttctacct ttcaagtttt aaaagtataa 120  
 agatggcaga gacattccta ttacctcag agtcggtgaa cgagggacac cctgacaagc 180  
 tctgcgacca aatctccgat gctgtcctcg acgcttgccct cgagcaggac ccagacagca 240  
 aagttgcctg cgaaacatgc accaaaacca acttggtcat ggtcttcgga gaaatcacga 300  
 ccaaggccaa cgttgactac gagaagatag tgcgt 335

<210> 1942  
 <211> 285  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1942  
  
 tcgcangcnc gcgtacgtna gctcgggaatt cggctcgagg ggattctcaa cattgtgaag 60  
 gaaaactttg atttcaggcc tggatatgatc tccatcaacc ttgatctcaa gaggggtgga 120  
 aataacaggt ttttgaagac tgctgcctat ggacactttg gaagagaaga ccctgacttc 180  
 acatgggaag tggtaaacc cctcaagtgg gagaaggcct aagtaattca ttccactgct 240  
 ctatgctgga agttttttga gcgttgccct ataatatgtc taata 285

<210> 1943  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1943  
  
 ngctcangc acncgtacgt aagctnggaa ttcggctcna ggtctgttcn ngctaccatc 60  
 tctctnctct ctttcttagt gcctccttgc cagaagttaa antggcccaa gaaactttcc 120  
 tattcacatc tgaatnagtg aacgagggggc accctgacaa gctctgtgac cagatctccg 180  
 atgctgtgct cgatgcatgc ttggagcagg accctgacag canngttgcc tgtgaaacct 240  
 gcaccaagac caacatggtg atgggttttcg gagagatcac naccaaggnc aacgtggact 300  
 atgagaagat 310

<210> 1944  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1944  
  
 gtcgcatgca cgcgtacgta agctcgggaa ttcggctcga ggtaggttc tgcacgctct 60  
 gcttccagcg agtgttcttt cttcgtttca acaccttaac ttgcacacgc tgcttcttca 120  
 gcttgagaaa tggcacaaga aacctttcta ttcacatctg aatctgtaaa cgaggggtcac 180  
 cccgacaagc tgtgcgacca gatctctgat gcagtgtctg atgcgtgcct tgaacaggac 240

cctgacagca aggttgcttg tgagacatgc accaagacca acatgggtcat ggtcttttga 300  
gagatcacaa ccaaggc 317

<210> 1945  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1945

tngnnnngcac gcgtacgtaa gctcgggaatt cggctcgagc ggctcgagtt tgggagttag 60  
gttctgcacg ctctgcttcc agcgagtgtt ctttcttcgt ttcaacacct taatttgcac 120  
acgctgcttc ttcagcttga gaaatggcac aagaaacctt tctattcaca tctgaatctg 180  
taaacgaggg tcaccccgac aagctgtgcg accagatctc tgatgcagtg ctgatgcgt 240  
gccttgaaca ggacctgac agcaagggtg cctgtgagac atgcaccaag accaacaatgg 300  
tcatgggtctt tggagagatc acaaccaagg c 331

<210> 1946  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1946

nncacgcgta cgtaagctcg gaattcgggt cgagnggagt taggttctgc acgctctgct 60  
tccagcgagt gttctttctt cgtttcaaca ccttaatttg cacacgctgc ttcttengct 120  
tgagaaatgg cacaagaaac ctttctattc acatctgaat ctgtaaacga gggtcacccc 180  
gacaagctgt gcgaccagat ctctgatgca gtgctcgatg cgtgccttga acaggaccct 240  
gacagcaagg ttgcctgtga gacatgcacc aagaccaaca tggatcatggt ctttggagag 300  
atcacacca aggc 314

<210> 1947  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 1947

ctcgatgca cgcgtacgta agctcggaat tcggctcgag gcacgctctg cttccagcga 60  
gtgttctttc ttcgtttcaa caccttaatt tgcacacgct gcttcttcag cttgagaaat 120  
ggcacaagaa acctttctat tcacatctga atctgtaaac gagggtcacc cgcacaagct 180  
gtgcgaccag atctctgatg cagtgcctga tgcgtgcctt gaacaggacc ctgacagcaa 240  
ggttgcctgt gagacatgca ccaagaccaa catggatcatg gtctttggag agatcacaac 300  
caaggc 306

<210> 1948

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1948

atgngagtcg cangcncgcg tacgtnagct cggaaatcgg ctcgaggnga ttctcaacat 60  
tgtgaaggaa aactttgatt tcaggcctgg tatgatctcc atcaaccttg atctcaagag 120  
gggtggaaat aacagggtttt tgaagactgc tgcctatgga cactttggaa gagaagaccc 180  
tgacttcaca tgggaagtgg tcaaaccctt caagtgggag aaggcctaag taattcattc 240  
cactgctcta tgctggaagt tttttgagcg ttgcccttat aatatgtcta atatcca 297

<210> 1949

<211> 217

<212> DNA

<213> Glycine max

<400> 1949

gcgtacgtaa gctcggaatt cggctcgagg acaaatgcaa ggtgttggtc aacattgagc 60  
agcagagccc tgatatcgcc caggggtgtgc acggtcactt caccaagcgc ccagaggagg 120  
ttggtgctgg tgaccagggt cacatgtttg gctatgccac tgatgaaacc cctgagtaca 180  
tgcccctcag ccatgtcctt gcaaccaaac tcggtgc 217

<210> 1950

<211> 291

<212> DNA

<213> Glycine max

<223>        unsure at all n locations  
 <400>        1950

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agnnaangca cgcgtacgta agctcggaat tcggctcgag actctctctg ctcttcttct   60
acctttcaag tttttaaaagt attaagatgg cagagacatt cctatttacc tcagagtcag  120
tgaacgaggg acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt  180
gccttgaaca ggacccagac agcaaggttg cctgcgaaac atgcaccaag accaacttgg  240
tcatggtctt cggagagatc accaccaagg ccaacgttga ctacgagaag a           291
  
```

<210>        1951  
 <211>        291  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        1951

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gtcgcannnt ngcgtacgta agctcggaat tcggctcgag actctctctg ctcttcttct   60
acctttcaag tttttaaaagt attaagatgg cagagacatt cctatttacc tcagagtcag  120
tgaacgaggg acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt  180
gccttgaaca ggacccagac agcaaggttg cctgcgaaac atgcaccaag accaacttgg  240
tcatggtctt cggagagatc accaccaagg ccaacgttga ctacgagaag a           291
  
```

<210>        1952  
 <211>        319  
 <212>        DNA  
 <213>        Glycine max

<400>        1952

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gtcgcacatgca cgcgtacgta agctcggaat tcggctcgag gttagggttct gcacgctctg   60
cttccagcga gtgttctttc ttcgtttcaa caccttaatt tgcacacgct gcttcttcag  120
cttgagaaat ggcacaagaa acctttctat tcacatctga atctgtaaac gagggtcacc  180
ccgacaagct gtgcgaccag atctctgatg cagtgtctga tgcgtgcctt gaacaggacc  240
ctgacagcaa ggttgccctgt gagacatgca ccaagaccaa catggtcatg gtctttggag  300
agatcacaac caaggccag                                     319
  
```

<210> 1953  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1953  
  
 gtcgnangca cgcgtacgta agctcggaaat tcggctcgag tctctctgtt ctcttctacc 60  
 tctcaagttt ttgaagtata gagatggcag agacattcct atttacctca gagtccagtga 120  
 acgagggaca ccctgacaag ctctgtgacc aaatctctga tgctgtcctc gacgcttgcc 180  
 tcgaacagga cccagacagc aagggtgcct gcgaaacatg caccaaaacc aacttggtca 240  
 tgggtcttcgg agaaatcacg accaaggcca atgttgacta cgagaaga 288

<210> 1954  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1954  
  
 acctctcaag tttttgaagt atagagatgg cagagacatt cctatttacc tcagagtcag 60  
 tgaacgaggg acaccctgac aagctctgtg accaaatctc tgatgctgtc ctcgacgctt 120  
 gcctcgaaca ggacccagac agcaagggtg cctgcgaaac atgcacaaaa accaacttgg 180  
 tcatggtctt cggagaaaac acgaccaagg ccaatgttga ctacgagaag atatgcgtga 240  
 cactgcag 248

<210> 1955  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1955  
  
 cgcangcacg cgtacgtnag ctccgaattc ggctcgagnt ttgaaccctt ctggcaggtt 60  
 tgtcattgga gggccgcatg gngatgctgg tctcaccggc ngcaagntca ncatcgacac 120  
 ctatgntcng atggggtgca catggtggtg gtgccttctn tgggaaggat ccgccaangt 180  
 tgataggagt ggtgcctaca ttgtgaggca agctgcaaag agcattgttn caaatggant 240  
 tgctaggagg gcaattgtgc aagtttcta tgccattggt gtgcctganc cntgtctgtg 300



nttgtnac

309

<210> 1956  
<211> 292  
<212> DNA  
<213> Glycine max

<400> 1956

cgtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gggtaggaggt gccttttcag 60  
ggaaggaccc taccaagggt gacagaagtg gtgcctatat cgtgaggcag gctgcaaaga 120  
gtgttggtggc aaatggcctt gccagaaggt gcattgtcca agtttcctat gccattggtg 180  
tccctgagcc ctgtcagtgt ttgtggacac ttatggaact gggaagattc ctgacaagga 240  
gattcttcaa atgtgaagga gaattcgact tcagacctgg aatgatcacc at 292

<210> 1957  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 1957

tgcattgcacg cgtacgtaag ctcggaattc ggctcgagta acaacagcac aaagcggggt 60  
actgtctgtt caagctacca tctctctctc tctttcttag tgctctcttg ccagaagtta 120  
aaatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg caccctgaca 180  
agctctgtga ccagatctcc gatgctgtgc tcgatgcatt cttggagcag gaccctgaca 240  
gcaagggttg ctgtgaaacc tgcaccaaga ccaacatggt gatggttttc ggagagatca 300  
caaccaaggc caacgtg 317

<210> 1958  
<211> 219  
<212> DNA  
<213> Glycine max

<400> 1958

tagtgctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
atgcttggag caggaccctg acagcaaggt tgctgtgaa acctgcacca agaccaacat 180

ggtgatggtt ttcggagaga tcacaaccaa ggccaacgt 219

<210> 1959  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1959

togatgcacn cgtacgtgag ctcggaattc ggctcgaggc gggtnnctgt ctgttcaagc 60  
 taccatctct ctctctcttt cttagtgcct ccntgccaga agttaaaatg gcccaagaaa 120  
 ctttcttatt cacatctgaa tcagtgaacg agggggcacc tgacaagctc tgtgaccaga 180  
 tctccgatgc tgtgctcgat gcatgcttgg agcaggacc tgacagcaag gttgcctgtg 240  
 aaacctgcac caagaccaac atggtgatgg ttttcggaga ggtcacaacc aaggccaacg 300  
 tggatatgan aagattgtgc gtgac 325

<210> 1960  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1960

gtcgcangca cgcgtacgta agctcggaat tcggctcgag gcacaaagcg ggttactgtc 60  
 tgttcaagct accatctctc tctctctttc ttagtgctc cttgccagaa gttaaaatgg 120  
 cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctct 180  
 gtgaccagat ctccgatgct gtgctcgatg catgcttgg gcaggaccct gacagcaagg 240  
 ttgcctgtga aacctgcacc aagaccaaca tgggtgatgg ttttcggagag atcacaacca 300  
 aggccaacgt ggactn 316

<210> 1961  
 <211> 495  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1961

ggnnnnnnnn aatttactct gcccgncagg tacangtaca gaattcccgg ntcgaccac 60  
 gcgtcagtac ggctgcgaga agacgacaga agggggcagc gcttgatttg aggccaggca 120  
 agccccactc aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcta 180  
 cctttcaagt tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt 240  
 gaacgaggga caccctgaca agctctgcga ccaaattctc gatgctgtcc tcgacgcttg 300  
 cctcgagcag gaccagaca gcaaagttgc ctgcgaaaca tgcacaaaaa ccaacttggt 360  
 catggtcttc ggagaaatca cgaccaangc caacgttgac tacganaaga tatgctgac 420  
 acctgcaagg aacatcggct tctctcaaat gatgttggga ctggatgccg acaactgcaa 480  
 ggtctcgtca acatt 495

<210> 1962  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1962

agtcgngca cgcgtacgta aactcggaat tcggctcnag cnaggttgat aggnatggtg 60  
 cttacattgt gagacaggct gctaaganca ttgtggcaag tggacttgcc agaaggcgca 120  
 ttgtagcaag tgtcttancg cattggtgtg cctgagcctt tgtctgtgtt tnttgacacc 180  
 tatggcactg ggaagatcca tgataaggag attctcaaca ttgngaagga aaactttgat 240  
 ttcangcctg gnatgatctc catcaacctt 270

<210> 1963  
 <211> 282  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1963

tgcacaaaaa ccaacttggt catggtcttc ggagaaatca cgancaaggc caacgnttga 60  
 ctacggagaa gnnatgcgnt gaacacctgg caggncatc ggcttcgtct caaatnangt 120  
 gggactgccn tgccgacaac tgcaaggctc tcgtcaacat tgagcagcag agccctgata 180  
 ttgctcaggg tgtacacggc caccttacca aaaaacctga agaaattggt gctggtgacc 240

agggtcacat gtttggcnat gccactgatg aaaccctga ct 282

<210> 1964  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1964

nngttcntgc acgcgtacgt cagctcggaa ttcggctcga ggcgggttac tgtctgttca 60  
 agctaccatc tctctctctc tttcttagtg cctccttgcc agaagttaaa atggcccaag 120  
 aaactttcct attcacatct gaatcagtga acgaggggca ccctgacaag ctctgtgacc 180  
 agatctccga tgctgtgctc gatgcatgct tggagcagga ccctgacagc aagggtgcct 240  
 gtgaaacctg caccaagacc aacatggtga tggttttcgg agagntnaca accaaggcca 300  
 acgtgg 306

<210> 1965  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1965

gcangcacgc gtacgtaagc tcggaattcg gctcgaggac ttaacaacag cacaagcgg 60  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagaag 120  
 ttaaaatggc ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg 180  
 acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttgag caggaccctg 240  
 acagcaaggt tgctgtgaa acctgcacca agaccaacat ggtgatggtt ttcggagaga 300  
 ncacaacca ggccaag 317

<210> 1966  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1966

tcgtangtaa gctcggaatt cggctcgagg cgggncaactg tctgttcaag ctaccatctc 60

tctctctctt tcttagtgcc tccttgccag aagttaaaat ggcccaagaa actttcctat 120  
 tcacatctga atcagtgaac gagggggcacc ctgacaagct ctgtgaccag atctccgacn 180  
 ctgtgctcga tgcattgcttg gancaggacc ctgacagcaa gggtgcctgt gaaacctgca 240  
 ccaagaccaa catggtgatg gttttcggag agatcacaac caaggccaac gtggat 296

<210> 1967  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 1967

acgtcgcattg ctacgctacg taagctcggg attcggctcg agcacaagc gggttactgt 60  
 ctgttcaagc taccatctct ctctctcttt cttagtgccct ccttgccaga agttaaatag 120  
 gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc tgacaagctc 180  
 tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc tgacagcaag 240  
 gttgcctgtg aaacctgcac caagaccaac atggtgatgg ttttcggaga gatcacaacc 300  
 aaggccacgt ggactatg 318

<210> 1968  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1968

gtcncatgca cgcgtacgta agctcgggaat tcggctcgag acagcacaaa gcgggttact 60  
 gtntgttcaa gctaccatct ctctctctct ttcttagtgc ctcttgcca gaagttaaaa 120  
 tgggccaag aaactttcct attcacatct gaatcagtga acgaggggca ccctgacaag 180  
 ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga ccctgacagc 240  
 aagggtgcct gtgaaacctg caccaagacc aacatggtga tggttttcgg agagatcaca 300  
 accaaggcca acg 313

<210> 1969  
 <211> 291  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1969

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ncgtcgcacg cacgcgtacg taagctcggg attcggctcg agngcagttt taaaagtata 60
aagatggcag agacattcct atttacctac agagtcgggtg aacgagggac accctgacaa 120
gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg acccagacag 180
caaagttgcc tgcgaaacat gcacaaaaac caacttggtc atggtcttcg gagaaatcac 240
gaccaaggcc aacgttgact acgagaagat agtgcgtgac acctgcagga a 291
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<210> 1970

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1970

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ntgcantnac gcgtacgtaa gctcgggaatt cggctcnagn cagacttaac aacagcacaa 60
agcgggttac tgtctgttca agctaccatc tctctcncct ctttcttagt gcctccttgc 120
cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180
accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240
accctgacag caaggttgcc tgtgaaacct gcancaagac caacatggtg atggttttcg 300
gagagatcac aaccaaggcc aacgtgg 327
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<210> 1971

<211> 294

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1971

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tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagc cacaccactc tctctgnntc 60
ttcttctacc tttcaagtnt ttaaagtatt aagatggcag agacattcct atttacctca 120
gagtcagtga acgaggggaca ccctgacaag ctctgcgacc aaatctccga tgctgtcctc 180
gacgcttgcc ttgaacagga ccagacagc aaggttgctt gcgaaacatg caccaagacc 240
aacttggtca tgggtcttcgg agagatcacc accaaggcca acgttgacta cgag 294
```

<210> 1972  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1972

gtcgcacatgca cgcgtacgta agctcgggaat tcggctcgag ntttcaagtt tttaaagtat 60  
 taagatggca gagacattcc tatntacctc agagtcagtg aacgagggac accctgacaa 120  
 gctctgacgac caaatctccg atgctgtcct cgacgcttgc cttgaacagg acccagacag 180  
 caagggttgcc tgcgaaacat gcaccaagac caacttggtc atggtcttcg gagagatcac 240  
 caccaaggcc aacgttgnc t acgagaagtc gtgcgtgaca ctgaggaaca tcg 293

<210> 1973  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1973

tcgcngcacg cgtacgtaag ctccggaattc ggctcgagcg agccatttgg gagttagggtt 60  
 ctgcacgctc tgcttccagc gagtgttctt tcttcgnttc aacaccttaa tttgcacacg 120  
 ctgcttcttc agcttgagaa atggcacaag aaacctttct attcacatct gaatctgtaa 180  
 acgaggggtca ccccgacaag ctgtgacgacc agatctctga tgcagtgtc gatgcgtgcc 240  
 ttgaacagga ccctggacag caagggttgcc tgtgagacat gcaccaagac caacatggtc 300  
 atggtctttg gagagatcac aaccaaggcc aacgtagat 339

<210> 1974  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1974

gtcgcntgca cgcgtacgta agctcgggaat tcggctcgag gctacccctt tctgctcttc 60  
 ttctaccttt caagttttta aagtataaag atggcagaga catttctatt tacctcagag 120

tcggtgaacg agggacaccc tgacaagctc tgcgaaccaa atctccgatg ctgtcctcga 180  
cgcttgccctc gagcaggacc cagacagcaa agttgcctgc gaaacatgca ccaaaaccaa 240  
cttggtcatg gtcttcggag aaatcacgac caaggccaac gttgactacg agaagatagt 300  
gcgtgac 307

<210> 1975  
<211> 316  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1975

anacgcangc angcgtacgt aagctcggaa ttcggctcga gcaagcccca ctcaaccacc 60  
acaccactct ctctgctctt cttctacctt tcaagttttt aaagtattaa gatggcagag 120  
acattcctat ttacctcaga gtcagtgaac gagggacacc ctgacaagct ctgcgaccaa 180  
atctccgatg ctgtcctcga cgcttgccctt gaacaggacc cagacagcaa ggttgccctgc 240  
gaaacatgca ccaagaccaa cttggtcatg gtcttcggag agatcaccac caaggccaag 300  
ttgactacga gaagat 316

<210> 1976  
<211> 315  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1976

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gggttactgt ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga 120  
agttaaaatg gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc 180  
tgacaagctc tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc 240  
tgacagcaag gttgcctgtg aaacctgcac caagaccaac atggtgatgg ttttcggaga 300  
gatcacaacc aaggc 315

<210> 1977  
<211> 316  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 1977

gtcgcangca cgcgtacgta agctcggaat tcggctcgag gacttaacaa cagcacaaag 60  
cggggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
aagttaaaat ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcattgctt gagcaggacc 240  
ctgacagcaa gggtgcctgt gaaacctgca ccaagaccaa catggtgatg gttttcggag 300  
agatcacaaac caaggc 316

<210> 1978

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1978

nnagangcac gnacaacgta agctcggaat tcggctcgag caacagcaca aagcgggtta 60  
ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc cagaagttaa 120  
aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc accctgacaa 180  
gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag 240  
caaggttgcc tgtgaaacct gcaccaagac caacatggtg atggttttcg gagagatcac 300  
aaccaaggc 309

<210> 1979

<211> 298

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1979

natgnntacg tnagctcgga attcggctcg agcagcacia agcgggttac tgtctgttca 60  
agctaccatc tctctctctc tttcttagtg cctccttgcc agaagttaaa atggcccaag 120  
aaactttcct attcacatct gaatcagtga acgaggggca ccctgacaag ctctgtgacc 180  
agatctccga tgctgtgctc gatgcatgct tggagcagga ccctgacagc aaggttgcct 240

gtgaaacctg caccaagacc aacatggtga tggttttcgg agagatcaca accaaggc 298

<210> 1980

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1980

tcgcangcac gcgtacgtaa nctcggaatt cggctcgagn ttgggagtta ggttctgcac 60

gctctgcttc cagcgagtgt tctttcttcg tttcaacacc ttaatttgca cacgctgctt 120

cttcagcttg agaaatggca caagaaacct ttctattcac atctgaatct gtaaacgagg 180

gtcaccgccga caagctgtgc gaccagatct ctgatgcagt gctcgatgcg tgccttgaac 240

aggaccctga cagcaagggt gcctgtgaga catgcaccaa gaccaacatg gtcatggtct 300

ttggagagat caca 314

<210> 1981

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1981

gtcgcattgca cgcgtacgta agctcggaat tcgggctcga gcttaacaac agcacaaagc 60

gggttactgt ctgttcaagc taccatntct ctctctcttt cttagtgcct ccttgccaga 120

agttaaaatg gcccaagnaa actttcctat tcacatctga atcagtgaac gaggggcacc 180

ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcattgctt gagcaggacc 240

ctgacagcaa gggtgcctgt gaaacctgca ccaagaccaa catggtgatg gttttcggag 300

agatcacaac caaggccaac gtggn 325

<210> 1982

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1982

gtcgcangca cgcgtacgta agctcggaat tcggctcgag nttgggagtt aggttctgca 60  
cgctctgctt ccagcgagtg ttctttcttc gtttcaacac cttaatttgc acacgctgct 120  
tcttcagctt gagaaatggc acaagaaacc tttctattca catctgaatc tgtaaacgag 180  
ggtcaccccg acaagctgtg cgaccagatc tctgatgcag tgctcgatgc gtgccttgaa 240  
caggaccctg acagcaaggt tgcctgtgag acatgcacca agaccaacat ggtcatggtc 300  
tttgagaga tcaca 315

<210> 1983  
<211> 298  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1983

gtcgcattgca cgcgtacgta agctcggaat tcggctcgag cctcagccat gtccttgcaa 60  
ccaaacttgg tgctcgctc acagaggta ggaagaatgg cacctgtgct tggttgaggc 120  
cagatggtaa gacacaagta accgtcgagt actacaatga caatgggtgcc atggttccag 180  
ttcgtgtcca cactgtccta atttccaccc aacatgatgn ncctgtgagc aatgatcaaa 240  
ttgctgcgga cttaaaggca tgttataaac ctgncatccn ggaaaatact tgnaggaa 298

<210> 1984  
<211> 299  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1984

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gctaccatct ctctctctct nnccttagtg cctccttgcc agaagttaaa atggcccaag 120  
aaactttcct attcacatct gaatcagtga acgaggggca ccctgacaag ctctgtgacc 180  
agatctccga tgctgtgctc gatgcatgct tggagcagga ccctgacagc aagggttgct 240  
gtgaaacctg caccaagacc aacatggtga tggttttcgg agagatcaca accaaggcc 299

<210> 1985  
<211> 306  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1985

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ncgtnncntn nagctcggaa ttcggctcga gcttaacaac agcacaaagc gggttactgt 60
ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga agttaaaatg 120
gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc tgacaagctc 180
tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc tgacagcaag 240
gttgectgtg aaacctgcac caagaccaac atgggtgatgg ttttcggaga gatcacaacc 300
aaggcc 306
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<210> 1986

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1986

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aagctaccat ctctctctct ctttcttagt gcctccttgc cagaagttaa aatggcccaa 120
gaaactttcc tattcacatc tgaatcagtg aacgaggggc accctgacaa gctctgtgac 180
cagatctccg atgtgtgtct cgatgcatgc ttggagcagg accctgacag caaggttgcc 240
tgtgaaacct gcaccaagac caacatggtg atggttttcg gagagatcac aaccaaggcc 300
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<210> 1987

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1987

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gaaccgtngc tggtacgtaa gctcgggaatt cggctcgagg cagacttaac aacagcacia 60
agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120
agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180
ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240
ccctgacagc aaggttgctt gtgaaacctg caccaagacc aacatggtga tggttttcgg 300
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agagatcaca accaaggcc

319

<210> 1988

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1988

gnannngcac gcgtacgtaa gctcggaatt cggctcgaga acaacagcac aaagcgggtt 60

actgtctgtt caagctacca tctctctctc tctttcttag tgcctccttg ccagaagtta 120

aatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg caccctgaca 180

agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag gaccctgaca 240

gcaagggttg ctgtgaaacc tgcaccaaga ccaacatggt gatggttttc ggagagatca 300

caaccaaggc c 311

<210> 1989

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1989

ctngcangca gcgtacgtaa gctcggaatt cggctcgagg cagacttaac aacagcacia 60

agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120

agaagttaaa atgggcccac ganactttcc tntcacatc tgaatcagt aacgaggggc 180

accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240

accctgacag caaggttgcc tgtgaaacct gcaccaagac caacatggtg atggttttcg 300

gagagatcac aaccaaggcc aacgtggact a 331

<210> 1990

<211> 319

<212> DNA

<213> Glycine max

<400> 1990

tcaacagtcg catgcacgcg tacgtaagct cggaattcgg ctcgagaaca acagcaciaa 60

gcgggttact gtctgttcaa gctaccatct ctctctctct ttcttagtgc ctccttgcca 120  
gaagttaaaa tggcccaaga aactttccta ttcacatctg aatcagtga cgagggggcac 180  
cctgacaagc tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac 240  
cctgacagca aggttgcttg tgaaacctgc accaagacca acatggtgat ggttttcggg 300  
gagatcacia ccaaggccc 319

<210> 1991  
<211> 288  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1991

ntaangcacg cgtacgtaag ctcggaattc ggctcgaggg acaaatgcaa ggtgttggtc 60  
aacattgagc aacagagccc ggatatcgcc caggggtgtgc acggccactt caccaagcgc 120  
ccagaggagg ttggtgctgg tgaccagggg cacatgtcac angtatgcca ncgatgncac 180  
ccccgagtac atgccccctca gccatgtcct tgcaacccaaa cttggtggnt cgccncacag 240  
aggttaggag aattgcactg tgcttggttg aggccagatg gtaagaca 288

<210> 1992  
<211> 333  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1992

nnncnngcac gcgtacgtng ctcggaattc ggctcgagct taacaacagc acaaagcggg 60  
ttactgtctg ttcaagctac catctctctc tctctttctt agtgccctct tgccagaagt 120  
taaaatggcc caagaaactt tcctattcac atctgaatca gtgaacgagg ggcaccctga 180  
caagctctgt gaccagatct ccgatgctgt gctcgatgca tgcttggagc aggaccctga 240  
cagcaagggt gcctgtgaaa cctggcacca agaccaacat ggtgatgggt ttcggagaga 300  
tcacaaccaa ggccaagtgg actatgagaa gat 333

<210> 1993  
<211> 325

<212> DNA  
<213> Glycine max

<400> 1993

tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagg ttgagaccaa gacacactcg 60  
ttcatatatc tctctgctct tctcttctct tctacctctc aagtttttga agtataaaga 120  
tggcagagac attcctattc acctcggagt cagtgaacga gggacaccct gataagctct 180  
gcgaccaatc tccgatgctg tcctcgacgc ttgcctcgaa caggaccag acagcaaggt 240  
tgcttgcgaa acatgcacca agaccaactt ggtcatggtc ttcggagaga tcaccaccaa 300  
ggccaacgtt gactacgaga agatc 325

<210> 1994  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1994

acgtcgcattg cacgcgtacg taagctcggga attcggctcg aggttactgt ctgttcaagc 60  
taccatctct ctctctcttt cttagtgcct ccttgccaga agtaaaaatg gcccaagaaa 120  
ctttcctatt cacatctgaa tcagtgaacg aggggcaccc tgacaagctc tgtgaccaga 180  
tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc tgacagcaag gttgcctgtg 240  
aaacctggca ccaagaccaa catggtgatg gttttcggng agatcacaac caaggccaag 300

<210> 1995  
<211> 322  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1995

gcgtacgtaa gctcgggaatt cggctcgagn aagcnccact tcaaccacca cacnactctc 60  
tctgctcttc ttctaccttt caagttttta aagtattaag atggcagaga cattcctatt 120  
tacctcagag tcagtgaacg agggacaccc tgacaagctc tgcgaccaa tctccgatgc 180  
tgtcctcgac gcttgcttgg aacaggaccc agacagcaag gttgcctgcg aaacatgcac 240  
caagaccaat tggatcatggc cttcggagag atcaccacca aggccaagtt gactacgaga 300

agatcgtgcg tgacactgca gg

322

<210> 1996

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1996

tgggagttag gttctgcacg ctctgcttcc agcgagtgtt ctttcttcgt ttcaacacct 60

taatttgcac acgctgcttc ttcagcttga gaaatggcac aagaaacctt tctattcaca 120

tctgaatctg taaacgaggg tcaccccgac aagcgtgcga ccagatctct gatgcagtgc 180

tcgatgcgtg ccttgaacag gaccttgaca gcaagggttg ctgtgagaca tgcaccaaga 240

ccaacatggg catggtcttt ggagagatca caaccaaggc aacgtagata tgagaagatg 300

tcgtgnacat gcgcgaattg g 321

<210> 1997

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1997

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ggccttttca gggaaggacc ctaccacngg ttgacagaag tgaccgccta tattgtaagg 120

cagnctgcaa agagtgttcg tgggcaaattg gccttgntag aagggtgcatt gtgcaagttt 180

cctatgccat tgggtgtccct gagcccttgt cagtgtttgt ggacncttat ggaactggga 240

agattcctga caaggagatt ctgcaaattg tgaaggagaa tttcgacttc agacctggna 300

tga 303

<210> 1998

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1998



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aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 120  
cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180  
accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
accctgacag caaggttgcc tgtgaaacct gcaccaagac caacatgggtg atggttttcg 300  
gagagatcac naccaaggcc aacgtggg 328

<210> 1999  
<211> 305  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1999

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caagctacca tctctctctc tctntcttag tgcctccctt gccagaagt aaatggccc 120  
aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac aagctctntg 180  
accagatctc cgatgctgtg ctcgatgcat gcttggagca ggaccctgac agcaangttg 240  
cctgtgaaac ctgcaccaag accaakatgg tgatngtttt cggagagatc acaaccaagg 300  
cnccg 305

<210> 2000  
<211> 321  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2000

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ggttactgtc tgttcaagct accatctctc tctctctttt ttagtgctc cttgccagaa 120  
gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatgg tttcggagag 300  
atcacaacca ggccaagtgg a 321

<210> 2001  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2001

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gtcgcacatgca cgcgtacgta agctcgggaa ttcggctcga ggtgatttgg gagtttggag 60
cgactgaact aatcattaat ttgcactcgc tgtttcagct tcatcaccct tcttttgcac 120
catttatatc tcttgagaaa tggcacaaga aacctttcta ttcacatctg aatctgtaaa 180
cgaggggtcac cccgacangc tgttcnancg gatctctgat gcagtacttg atgcgtgcct 240
tgaacaggac cctgacagca aggttgccctg tgagacatgc accaagacca acatgggtcat 300
ggtcttcgga gagatcacia ccaaggc 327
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<210> 2002  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2002

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ctgcttccag cgagtgttct ttcttcgttt caacacctta atttgcaaac gctgctttct 120
tcngcttgag aaatggnaca agnnaccttt ctattcacat ctgaatctgt aaacgagggg 180
caccccgaca anctgtgcga ccagatctct gatgcagtgc tcgatgcgtg ccttgaacag 240
gacnctgaca gcaagggttg ctgtgagaca tgcaccaaga ccaacatggt catggtcttt 300
gganagatca caacca 316
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<210> 2003  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2003

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ccncnngccn acccntngnc nncntntcng tcgnngnnnc gtacgtnagc tcggnattcg 60
gctcnggccn agccccactc aaccaccaca ccactctctc tgctcttctt ctacctttca 120
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ngttttttaa gtattaagat ggcagagaca ttcctattta cctcagagtc agtgaacgag 180  
ggacaccctg acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgccttgaa 240  
caggacccag acagcaaggt tgcctgcgaa acatgcacca agaccaactt ggtcatggtc 300  
ttcggagaga tcaccaccaa ggccaacgtt gact 334

<210> 2004  
<211> 216  
<212> DNA  
<213> Glycine max

<400> 2004

tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
atgcttgagg caggaccctg acagcaaggt tgcctgtgaa acctggcacc aagaccaaca 180  
tggatgatgg tttcggagag atcacaacca aggcca 216

<210> 2005  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2005

gnacgacgca ngcacgcgta cgtnagctcg gaattcggct cgagctcatg gtgatgctgg 60  
tctcactgga agaaagatca tcattgatac ctatgggtggg tgggggtgctc atgggtggagg 120  
tgccttttca gggaaggacc ctaccaaggt tgncagaagt ggtgcctata tcgtgaggca 180  
ggctgcaaag agtgtnngtg gcaaattggc ttgccagaag gtgcattgtc caagtttctc 240  
atgccattgg gtgtccctga gccctngtca gnggtnggtg gacattatgg nncntgggaa 300  
nttcctcaca aggggtttt 319

<210> 2006  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2006

tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagc tcgagccgct cgagccgatt 60  
cggctcgagg tggccctcat ggtgntgctg gtctcactgg accgaaagat acntcattga 120  
tacctatggt ggggtggggac ctcatggtgg aggtgccttt tcaggggaagg accctaccaa 180  
ggttgacaga agtgggtgcct atatngtgag gcaggctgca aanagtgttg tggcaaattg 240  
ccttgccaga aggtgcattg tccaagtttc ctatgcnatt ggtgtccctg agccc 295

<210> 2007  
<211> 261  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2007

tatctctctg ttctcttcta cctctcaagt ttttgaagta tagagatggc agagacattc 60  
ctattttacct cagagtcagt gaacgagggg caccctgaca agctctgtga ccaaattctct 120  
gatgctgtcc tcgacgcttg cctcgaacag gaccagaca gcaaggttgc ctgcgaaaca 180  
tgcacaaaaa ccaacttggg catggtcttc ggagaatcac gaccaaggcc aatgtngant 240  
acgagaagat atgcgtgacc c 261

<210> 2008  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2008

caggcaagcn ccactcaacc accacacctc tncnngttca cgctaccgcg tttctgctct 60  
tcttctacct ttcaagtttt aaaagtataa agatggcaga gacattccta ttacctcag 120  
agtcggtgaa cgaggggacac cctgacaagc tctgcgacca aatctccgat gctgtcctng 180  
acgcttgctt cgagcaggac ccanacagca aagttgcctg cgaaacatgc accaaaacca 240  
acttggtcat ggtcttcgga gaaatcacga ccaaggccaa cgttgactac gaagaagata 300  
gtgcgtgaca cctgcaggaa ccattnngnt tngtctnaaa tgatgtgggg actggatgcc 360  
cgacaactgg caaggtcctc gtcnaacatt gancatcaaa agccctggtn ttggtnnagg 420  
gg 422

<210> 2009  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2009

tcgcngcacn cgtacgttag ctcggnttc ggctcgacct cgagccgaat cggctcgagg 60  
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 aagttaaaat ggccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
 ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcattgcttg gagcaggacc 240  
 ctgacagcaa ggttgccctgt gaaacctgca ccaagaccaa catggtgatg gttttcggag 300  
 agatcaciaa 309

<210> 2010  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2010

ttcaangcag cgtacgtaag ctcggaattc ggctcgagcg gctcgagctc ttctacctct 60  
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 agggacaccc tgataagctc tgcgacaaa tctccgatgc tgcctcgac gcttgccctcg 180  
 aacaggaccc agacagcaag gttgcctgcg aaacatgcac caagaccanc ttggtcatgg 240  
 nnttcggaga gatcaccacc aaggccaacg ttgactacga 280

<210> 2011  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2011

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gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttggg gcaggaccct 240  
gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatggg ttcgggngng 300  
atcanaacaa ggg 313

<210> 2012  
<211> 290  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2012

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gctaccatct ctctctctct ttcttagtgc ctcttgcca gaagttaaaa tggcccaaga 120  
aactttccta ttcacatctg aatcagtga cagggggcac cctgacaagc tctgtgacca 180  
gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca aggttgccctg 240  
tgaaacctgc accaagacca acatggtgat ggttttcgga gagatcacia 290

<210> 2013  
<211> 274  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2013

agtcgcannc acgcgtacgt aagctcggaa ttcggctcga nggctcgagc ggctcgnngc 60  
acggccacct cncaaagagg cctgaggaga ttggtgctgg tnnccaaggt catatgttcg 120  
gctatgccac tgacgagact nccgagctca tnncttgag cnatgtcctt gccacnaagc 180  
tccgtgccaa gctcaccgag gttcggaaga acgggacatg cccttggtg agacctgatc 240  
gcaagaccca ctccactggt gagtactaca acgn 274

<210> 2014  
<211> 299  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2014

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 cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctct 180  
 gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct gacagcaagg 240  
 ttgcctgtga aacctgcacc aagaccaaca tggatgatgt ttcggagag atcacaacc 299

<210> 2015  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2015

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 atgggcccaa gaaactttcc tattcacatc tgaatcagt aacgaggggc accctgacaa 180  
 gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag 240  
 caaggttgcc tgtgaaacct gcaccaagac caacatggtg atgggttttc gagagatcac 300  
 aaccaaggc 309

<210> 2016  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2016

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 aaatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg caccctgaca 180  
 agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag gaccctgaca 240  
 gcaaggttgc ctgtgaaacc tgcaccaaga ccaacatggt gatgggtttc ggagagatca 300  
 caacc 305

<210> 2017  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2017

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 gaaactttcc tattcacatc tgaatcagtg aacgaggggc accctgacaa gctctgtgac 180  
 cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag caaggttgcc 240  
 tgtgaaacct gcaccaagac caacatgggtg atggttttcg gagagatcac aacc 294

<210> 2018  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2018

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 gccgcaagtt aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg 180  
 gcaccctgac aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttgagca 240  
 ggaccctgac agcaagggttg cctgtgaaac ctgcaccaag accaacaatgg tgatggtttt 300  
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<210> 2019  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2019

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 ggccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc ctgacaagct 180



ctgtgaccag atctccgatg ctgtgctcga tgcattgcttg gagcaggacc ctgacagcaa 240  
 gggtgcctgt gaaacctgca ccaagaccaa catggtgatg gttttcggag agatcacaac 300

<210> 2020  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2020

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 taccttgatg agaagacat tttccacttg aaccctctg gccgttttgt cattggaggt 180  
 cctcacggtg atgctggtct caccggccgc aagatcatca tcgatactta cggaggatgg 240  
 ggtgctcatg gtggtggtgc cttctccggg aaggatccca ccaagttgat aggatggtgc 300  
 ttacatgtga 310

<210> 2021  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2021

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 acccctttct gctcttcttc tacctttcaa gtttnaaaag tataangatg gcagagacat 120  
 tccnatttac ctcagagtcg gtgaacgagg gacacctga caagctctgc gaccaaattc 180  
 ccgatgctgt cctcgacgct tgctcgagc aggaccaga cagcaaagtt ncctgcgaaa 240  
 catgcaccaa aaccaacttg gncatggtct tcggaganat cagaccaag gccaacgttg 300  
 actacgagaa atagtgcgtg acacct 326

<210> 2022  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2022

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 gaatggcacc tgtgctggtt gaggccagat ggtaagacac aagtaaccgt cgagtactac 120  
 aatgacaatg gtgccatggt tccagttcgt gtccacactg tcctaatttc cacccaacat 180  
 gatgagnctg tgagcaatga tcaaagtctg cggaccttaa agagcatggt atcaagcctg 240  
 tcatcctgag aagtaccttg atgagaagac catcttccac cttaacctc tggccgttt 299

<210> 2023  
 <211> 545  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2023

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 ctcaantntc tntgcttntn tcttnanctt naagtttttt aaagtattaa gatggcaaga 180  
 nacattccta tttacctcaa gagtcatga acgagggaca ccctgacaag ctctgcgacc 240  
 aaatctccga tgctgtctc gacgcttgcc ttgaacagga cccagacagc aaggttgcc 300  
 gcgaaacatg caccaagacc aacttggtca tgggtcttcgg gagagattac caccanggcc 360  
 aacgttgact angagaaaga tngtgcgtga cacctgcagg aatatcggt tctgtctcagg 420  
 angatntggg acttgatnct gacatctgca angtccttgt aaacattncg cagcatancc 480  
 ctaatnttgc ccagggtggt gaacggcacn ttacnntngn acccgnggan ntcggtgctg 540  
 ggagg 545

<210> 2024  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <400> 2024

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 ctgacaagct ctgcgaccaa actccgatgc tgtcctcgac gcttgccctg aacaggaccc 180

agacagcaag gttgcctgcg aaacatgcac caagaccaac ttggtcatgg tcttcggaga 240  
gatcaccacc aaggccaacg ttgactacga g 271

<210> 2025  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2025

gcaagcccca ctcaaccacc acacctctcc tcgttcacgc tacccttttc tgctcttctt 60  
ctaacttttc aagttttaaa agtataaaga tggcagagac attcctattt acctcagagt 120  
cgggtgaacga gggacaccct gacaagctct gcgaccaaatt ctccgatgct gtcctcgacg 180  
cttgccctcga gcaggaccca gacagcaaag ttgcctgcga aacatgnacc aaaaccaact 240  
ttggtcatggt cttcggagaa atcacgacca aggccaagtt gactacgaga agatagt 297

<210> 2026  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2026

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ggttactgtc tgttcaagct accatctctc tctctctttc ttagtgctc cttgccagaa 120  
gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tgggtgatggt tttcggagag 300  
atcacaacca 310

<210> 2027  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2027

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ggttactgtc tgttcaagct accatctctc tctctctttc ttagtgctc cttgccagaa 120  
 gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
 gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
 gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatgg tttcggagag 300  
 atcacaacca 310

<210> 2028  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2028

ngnancetta gagtgcgatg cagcgtacg taagctcgga attcggtcg aggttaggtt 60  
 ctgcacgtc tgcttcacg gagtggtctt tcttcgtttc aacaccttaa tttgcanacg 120  
 ctgcttcttc ngcttgagaa atggcacaag aaacctttct attcacatct gaatctgtaa 180  
 acgaggggtca ccccgacaag ctgtgcgacc agatctctga tgcagtgtc gatgcgtgcc 240  
 ttgaacagga ccctgacagc aagggtgcct gtgagacatg caccaagacc aacatgggtca 300  
 tggctcttg 309

<210> 2029  
 <211> 487  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2029

aactctactt ggncaggccc cggtnacagaa atcccggctc gaccacgcg tcagtacggc 60  
 tgcgagaaga cgacagaagg gggcagcgt tgatttgagg ccaggcaagc cccactcaac 120  
 caccacacct ctctcgttc acgtacccc tttctgctct tttctacct ttcaagtttt 180  
 aaaagtataa agatggcaga gacattccta ttacctcag agtcggtgaa cgaggacac 240  
 cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgct cgagcangac 300  
 ccagacagca aagttgcctg cgaaacatgc accaaaacca acttggtcat ggtcttcgga 360  
 gaaatcacga acaagggcaa cgttgactac gaaaaagata attgcntgac aacctgcagg 420

gaacatcggc ttcgtctcaa atgatgttgg gactggatgc cgacaactgc aaaggtctcc 480  
gtcaaca 487

<210> 2030  
<211> 298  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2030

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cacaccactc tctctgctct tcttctacct ttcaagtttt taaagtatta agatggcaga 120  
gacattccta tttacctcag agtcagtgaa cgagggacac cctgacaagc tctgcgacca 180  
aatctccgat gctgtcctcg acgcttgcct tgaacaggac ccagacagca aggttgccctg 240  
cgaaacatgc accaagacca acttggtcat ggtcttcgga gagatcacca ccaaggcc 298

<210> 2031  
<211> 301  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2031

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ctgcttccag cgagtgttct nacttcgttt caacacctta atttgcacac gctgcttctt 120  
cagcttgaga aatggcacia gaaacctttc tattcacatc tgaatctgta aacgagggtc 180  
accccgacaa gctgtgcgac cagatctctg atgcagtgct cgatgcgtgc cttgaacagg 240  
accctgacag caaggttgcc tgtgagacat gcaccaagac caacatggtc atggtctttg 300  
g 301

<210> 2032  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2032

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tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag aagttaaaat 120  
ggcccaagaa acttttctat tcacatctga atcagtgaac gaggggcacc ctgacaagct 180  
ctgtgaccag atctccgatg ctgtgctcga tgcattgctt gagcaggacc ctgacagcaa 240  
ggttgctgtg gaaacctgca ccaagaccaa catggtgatg gttttcggng agatcac 297

<210> 2033  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2033

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accaccacac ntctcctcgt tnanctacc cctttctncc tcttcttcta cctttcaagt 120  
tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggg 180  
caccctgaca agctctgcga ccaaattctc gatgctgtcc tcgacgctng cctcgagcag 240  
gaccagaca gcaaagttgc ctgcgaaaca tgcacaaaaa ccaacttggt catggtcttc 300  
ggaganatca cgaccaaggc caacgttgac ta 332

<210> 2034  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2034

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gtctgttcaa gctaccatct ctctctctct ttcttagtgc ctcttgcca gaagttaaaa 120  
tggcccaaga aactttctta ttcacatctg aatcagtga cgaggggcac cctgacaagc 180  
tctgtgacca gatctccgat gctgtgntcg atgcatgctt ggagcaggac cctgacagca 240  
aggttgcttg tgaaacctgc accaagacca acatggtgat ggttttcgga gagatcacia 300

<210> 2035  
<211> 307  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2035

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ncgcangcac gcatacgtna gctcggaatt cggctcgagc tnaacaacag cacaaagcgg    60
gttactgtct gttcaagcta ccatacctctc tctctctttc ttagtgcttc cttgccagaa   120
gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct   180
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct   240
gacagcaagg ttgcctgtna aacctgcacc aagaccaaca tggatgatgg tttcggagag   300
atcacaoa                                     307
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<210> 2036

<211> 262

<212> DNA

<213> Glycine max

<400> 2036

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ccaagcccca ctcaaccacc acaccactct ctctgtctctt cttctacctt tcaagttttt    60
aaagtattaa gatggcagag acattcctat ttacctcaga gtcagtgaac gagggacacc   120
ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctt gaacaggacc   180
cagacagcaa gggtgcctgc gaaacatgca ccaagaccaa cttggatcatg gtcttcggag   240
agatcaccac caaggccaac gt                                     262
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<210> 2037

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2037

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aaatntanan gtcgcangca cgcgtacgta agctcggaat tcggctcgag cttacaaca    60
gcacaaagcg ggttactgtc tgttcaagct accatctcct ctctctcttt cttagtgcct   120
ccttgccaga agttaaaatg gcccaagaaa ctttctatt cacatctgaa tcagtgaacg   180
aggggcaccc tgacaagctc tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg   240
agcaggaccc tgacagcaag gttgcctgtg aaacctgcac caagaccaac atggtgatgg   300
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ttttcggaga gatcacaacc aag 323

<210> 2038  
<211> 311  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2038

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aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 120  
cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180  
accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
accctgacag caaggttgcc tgtgaaacct gcaccaagac caacatggtg atggttttcg 300  
gagagatcac a 311

<210> 2039  
<211> 301  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2039

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tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt aaaatggccc 120  
aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac aagctctgtg 180  
accagatctc cgatgctgtg ctcgatgcat gcttgagca ggaccctgac agcaaggntg 240  
cctgtgaaac ctgcaccaag accaacaatgg tgatggtttt cggngagatc acaaccaagg 300  
n 301

<210> 2040  
<211> 307  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2040

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tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag aagttaaaat 120  
 ggcccaagaa acttttctat tcacatctga atcagtgaac gaggggcacc ctgacaagcc 180  
 ctgtgaccag atctccgatg ctgtgctcga tgcattgctt gagcaggacc ctgacagcaa 240  
 ggttgcctgt gaaacctgca ccaagaccaa catgggtgatg gttttcggag agatcacaac 300  
 caaggcc 307

<210> 2041  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2041

cgcattgcagt ntacgtaagc tcggaattcn gctcgagcag cacaaagcgg gttactgtct 60  
 gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagaag ttaaaatggc 120  
 tcaagaaact ttcctattca catctgaatc agtgaacgag gaccaccctg acaagctctg 180  
 tgaccagatc tccgatgctg tgctcgatgc atgcttgagg caggaccctg acagcaaggt 240  
 tgctgtgaa acctgcacca agaccaacat ggtgatgggt ttcggagaga tcacaaccaa 300  
 ggc 303

<210> 2042  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2042

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 caagtacggc tgcgagaaga cgacagaagg gggcagcgt tgatttgagg ccaggcaagc 120  
 cccactcaac caccacacct ctctctgttc acgctacccc tttctgctct tcttctacct 180  
 ttcaagtttt aaaagtataa agatggcaga gacattccta ttacctcag agtcgggtgaa 240  
 cgagggacac cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt 300  
 cgagcaggac ccagacagca aagttgcctg cgaaacatgc accaaaacca acttggtcat 360  
 ggtcttcgga gaaatcacga ccaaggccaa cgttgactac gaagaagata gtgcgtnaca 420

cctgcaggga acatccggnt nntnccaaaa tnangttgga ncgggatccn anaatttgcn 480  
 aggggt 486

<210> 2043  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2043

ngtcgcatgc acgcgtacgt aagctcggaa ttcggctcga ggggcaccct gnacaagctc 60  
 tgtgaccaga tctccgatgc tgtgctcgat ggcattgcttg gagcaggacc ctgacagcaa 120  
 ggttgccctgt gaaacctgca ccaagaccaa catgggtgatg gttttcggag agatcacaac 180  
 caaggccaac gtggactatg agcaagcttg tgnctgaca catgcaggaa cattgggtttt 240  
 gtctctnatg atgtnggtct tggatgcnaa caactgcaag tctcgtcaac atngagcaac 300  
 agan 304

<210> 2044  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2044

gtcgcangca cgcgtacgta agctcgaatt cggtcggagg cagacttaac aacagcacia 60  
 agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120  
 agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
 ccctgacagc aaggttgccct gtgaacctgc accaagacca acatgggtgat ggttttcggg 300  
 gagatcacia ccaggccang tggan 325

<210> 2045  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 2045

gtcgcacatgca cgcgtacgta agctcggaat tcggctcgag tgagaaatgg cacaagaaac 60  
ctttctattc acatctgaat ctgtaaacga gggtcacccc gacaagctgt gcgaccagat 120  
ctctgatgca gtgctcgatg cgtgccttga acaggaccct gacagcaagg ttgcctgtga 180  
gacatggcac caagaccaac atggatcatg ttctttggag agatncacaa ccaagggcca 240  
acgtagacta tgagaagatt gttcctgnac acatgccggc gaantggatt ncannccg 298

<210> 2046

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2046

gtcgcacatgca cncgtacgta agctcggaat tcggctcgag gcagacttaa caacagcaca 60  
aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 120  
cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180  
accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
accctgacag caaggttgcc tgtgaaacct gcaccaagac caacatggtg aggttttcgg 300  
agagatcaca accaaggc 318

<210> 2047

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2047

gngtcgnang cacgcgtacg tnagctcgga atgcggctcg aggggttact gtctgttcaa 60  
gctaccatct ctncctctct ttcttagtgc ctcttgcca gaagnnaaan tngcccaaga 120  
aactttccta ttcnatctg aatcagtga cgaggggcac cctgacaagc tctgtgacca 180  
gatctccgat gctgtgctcg atgcatgcnt ggngcaggac nctgacagca aggttncttg 240  
tgaaacntgc accaagacca acatggtgat ggttttcgga gagatcacia ccaaggccaa 300  
cg 302

<210> 2048  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2048

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tcgnangcac gcgtacgtaa gctcggaatt cggctcnagt ttgggagtta ggttctgcac 60
gctctgcttc cagcgagtgt tctttcttcg tttcaacacc ttaatttgca cacgctgctt 120
cttcngcttg agaaatggca caagaaacct ttctattcac atctgaatct gtaaacgagg 180
gtcaccocga caagctgtgc gaccagatct ctgatgcagt gctcgatgcg tgccttgaac 240
aggaccctga cagcaagggt gctgtgaga catgcaccaa gaccaacatg gtcattgtct 300
t 301
```

<210> 2049  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2049

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tcgcangcac gcgtacgtaa gctcggaatt cggctcgagc tctctgctct tctcttctct 60
tctacctctc aagtttttga agtataaaga tggcagagac attcctattc acctcgaggt 120
cagtgaacga gggacacctt gataagctct gcgaccaa atccgatgct gtctctgacg 180
cttgctcga acaggacca gacagcaagg ttgcctgcga aacatgcacc aagaccaact 240
tggtcatggt cttcgagag atcaccacca agg 273
```

<210> 2050  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2050

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tcgcatgcac gcgtacgtaa gctcggaatt cggctcgagc tgcacgctct gttccagcg 60
agtgttcttt cttcgtttca acaccttaat ttgcanacgc tgcttcttct ggcttgagaa 120
atggcacaag aaacctttct attcacatct gaatctgtaa acgagggtca ccccgacaag 180
```

ctgtgcgacc agatctctga tgcagtgctc gatgcgtgcc ttgaacagga ccctgacagc 240  
aaggttgccct gtgagacatg caccaagacc aacatgggtca tgggtcttggga gagatcacia 300  
ccagggccaa cgt 313

<210> 2051  
<211> 312  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2051

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag gacttaacaa cagcaciaaag 60  
cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
aagttaaaat ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
ctgacaanct ctgtgaccag atctccgatg ctgtgctcga tgcagtcttg gagcaggacc 240  
ctgacagcaa ggttgccctgt gaaacctgca ccaagaccaa catggtgatg gttttcggag 300  
agatcacaac ca 312

<210> 2052  
<211> 308  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2052

gcgtacgtaa gctcgggaatt cngctcgagg cccactcaa ccaccacacc tctcctcggtt 60  
cacgctaccc ctttctgctc ttcttctacc tttcaagttt taaaagtata aagatggcag 120  
agacattcct atttacctca gagtcgggtga acgagggaca ccctgacaag ctctgcgacc 180  
aaatctccga tgctgtctc gacgcttgnc tcgagcagga ccagacagc aaagttgcct 240  
gcgaaacatg caccaaaacc aacttgggtca tgggtcttcgg agaaatcacg accaaggcca 300  
acgttgat 308

<210> 2053  
<211> 298  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2053

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gtcgcngcac gcgtacgtaa gctcgggaatt cggctcgagg ttaggttctg cacgctctgc 60
ttccagcgag tgttctttct tcgtttcaac accttaattt gcacacgctg cttcttcage 120
ttgagaaatg gcacaagaaa cttttctatt cacatctgaa tctgtaaacg aggggtcacc 180
cgacaagctg tgcgaccaga tctctgatgc agtgctcgat gcgtgccttg aacaggaccc 240
tgacagcaag gttgcctgtg agacatgnac caagaccaac atgggtcatgg tctttggn 298
```

<210> 2054  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2054

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nanangangt cgcangcacg cgtacgtnag ctccgnattc ggctcgaggn aagccccact 60
caaccaccac accactctct ctgctcttct tctacctttc aagtttttaa agtattaaga 120
tggcagagac attcctatct acctcagagt cagtgaacga gggacaccct gacaagctct 180
gcgaccaaatt ctccgatgct gtccctcgacg cttgccttga acaggaccca gacagcaagg 240
ttgcctgcga aacatgcacc aagaccaact tgggtcatggg cttcgggagag atcaccacca 300
nggc 304
```

<210> 2055  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2055

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aaactccacc gccaggtac cgggtacaaga attcccggnt cgaccacgc gtcnggcgag 60
aagacnacag aagggtacgg ctgcgagaag acgacagaag ggtacggctg cgagaanacg 120
acagaagggg acggctgcga agaagacgac agaaggggtac ggctgcgaga agacgacaga 180
agggtacggc tgcgagaaga cgacagaang gtacggctgc gagaagacga cagaaggggg 240
acatttatgg aactgggaag attcctgaca aggagattct tcaaattgtg aaggagaatt 300
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tcgacttcag acctggaatg atcaccatta acttggacct taagaggggt ggccataggt 360  
 tcctcaagac agctgcttat ggacactttg gaagggatga ccctgacttc acctgggaag 420  
 ttgtgaagcc actcaantct gaaaaacctc caacctaaaga atggttgtna atttaancnc 480  
 c 481

<210> 2056  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2056

nacgtcgcat gcacgcgtac gtaagctcgg aattcggctc gagtaacaac agcacaaagc 60  
 gggttactgt ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga 120  
 agttaaaatg gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc 180  
 tgacaagctc tgtgaccaga tctccgatgc tgtgctcgat gcatgcttcg agcaggaccc 240  
 tgacagcaag gttgcctnt gaaacctgca ccaagacca catggtgatg gttttcggag 300  
 agatcacaac caa 313

<210> 2057  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2057

tcncatgcac gcgtacgtaa gctcgggaatt cggctcgagg ttactgtctg ttcaagctac 60  
 catctctctc tctctttctt agtgcctcct tgccagaagt taaaatggcc caagaaactt 120  
 tcctattcac atctgaatca gtgaacgagg ggcaccctga caagctctgt gaccagatct 180  
 ccgatgctgt gctcgatgca tgcttgagagc aggaccctga cagcaagggt gcctgtgaaa 240  
 cctgacacca agaccaacat ggtgatgggt ttcggagaga tcacaaccaa ggccaacgtg 300  
 gatatg 306

<210> 2058  
 <211> 325  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2058

angcacncgt acgtnagctc ggnattcggc tcgagncana cttaacanca gcacaaagcg 60  
ggttactgtc tgttcaagct accatctctc tctctctttc ttagtgctc cttgccagaa 120  
gttaaaatgg cccaaganac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
gacagcaagg ttgcctgtga aacctggcac caagaccaac atggtgatgg ttttcggaga 300  
gatcacaacc aaggccaagt ggata 325

<210> 2059

<211> 286

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2059

tcgcatgcac gcgtacgtna gctcggatt cggtcgcgc tttctgctct tcttctacct 60  
ttcaagtttt aaaagtataa agatggcaga gacattccta tttacctcag antcggtgaa 120  
cgagggacac cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt 180  
cgagcaggac ccagacagca aagttgcctg cgaaacatgc accaaaacca acttggttca 240  
tggtcttcgg agaaatcacg accaaggcca acgttgacta cgagaa 286

<210> 2060

<211> 280

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2060

gtcgcangca cgcgtacgta aagctcggaa ttcggctcga gnaaagatgg cagagacatt 60  
cctatattacc tcagagtcgg tgaacgaggg acaccctgac caagctctgc gaccaaatct 120  
ccgatgctgt cctcgacgct tgcctcgagc aggncccaga tagcaaagtt ncntgcgana 180  
catgcaccan aaccnncttg gtcatggtct tcggagnnat cacgaccang gcnancgttg 240  
actanganan gatantgngt gacacctnca ggnacatcgg 280



<210> 2061  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2061

gtcgcacgca cgcgtacgta agctcgggaat tcggctcgag gtgatttgga gtttggagcg 60  
 actgaactaa tcattaattt gcaactcgctg tttcagcttc atcacccttc ttttgcacga 120  
 tttatatctc ttgagaaatg gcacaagaaa cttttctatt cacatctgaa tctgtaaagc 180  
 agggtcaccc cgacaagctg tgcnaccaga tctctgatgc agtacttgat gcgtgccttg 240  
 ancaggaccc tgacagcaag gttgcctgtg agacatgcac cnagaccaac aggtcatggt 300  
 cttcggagag atcacaacca aggc 324

<210> 2062  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2062

ganacgtacg tnagctcgga attcggctcg agncttaaca acagcacaaa gcgggttact 60  
 gtctgttcaa gctaccatct ctctctctct ttcttagtgc ctcttgcca gaagttaaaa 120  
 tggcccaaga aactttccta ttcacatctg aatcagtga cgagggggcac cctgacaagc 180  
 tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca 240  
 aggttgcttg tgaaacctgc accaagacca acatgggtgat ggtttcggag agatcacaac 300

<210> 2063  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2063

ntcgcanaca cgcgtacgtn agcncggaat tcggctcgag gtggcaaagc gccttnccag 60  
 aagggtgatt gtccaagttt cctatgccat tgggtgtccct gagcccttgt cagtgtttgt 120

ggacacttat ggaactggga agattcctga caaggagatt cttcaaattg tgaaggagaa 180  
 ttctgacttc agacctggaa tgatcaccat taacttggnc ttaaann 227

<210> 2064  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2064

tncttcgaan nnangctnac ntnagaatgn nnctcgannc aagcnccant caaccancac 60  
 acntctcttc gttcacgcta cccctttctg gctcttcttc tacctttcaa gttttaaaag 120  
 tataaagatg gcagagacat tcctatttac ctacagagtcg gtgaacgagg gacaccctga 180  
 caagctctgc gaccaaactc ccgatgctgt cctcgacgct tgcctcgagc aggaccacga 240  
 cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg gtcatgggtc tcggagaaat 300  
 cacgaccaag gcc 313

<210> 2065  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2065

nttgcanca cncgtacgn agctcggnan tcggctcgag ncagacttaa caacagcaca 60  
 nagcgggtta ctntctgttc aagctaccat ctctctctct ctttcttagt ggcctccttg 120  
 ccagaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg 180  
 caccctgaca agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag 240  
 gaccctgaca gcaagggttg ctgtgaaacc tgcaccaaga ccaacatggt gatgggtttc 300  
 ggagagatca n 311

<210> 2066  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2066

cgcatgcata agtacgtaag ctcggaattc ngctcgagca agccccactc aaccaccaca 60  
cctctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt tttaaaagta 120  
taaagatggc agagacattc ctatttacct cagagtcggt gaacaaggga caccctgaca 180  
agctctgcga ccaaattctc gatgctgtcc tcgacgcttg cctcgagcag gaccagaca 240  
gcaaagttgc ctgcgaaaca tgcacaaaa ccaacttggc catggtcttc ggagaaatca 300  
cgaccaaggc caacgtt 317

<210> 2067  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 2067

agtcgcatgc acgcgtacgt aagctcgga ttcggctcga gacttaacaa cagcaciaag 60  
cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
aagttaaaat ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcagtcttg gagcaggacc 240  
ctgacagcaa gggtgctgt gaaacctgca ccaagaccaa catggtgatg gttttcgag 300  
agatca 306

<210> 2068  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2068

ancagtcgna tgcacgcgta cgtaagctcg gaattcggct cgagccccac tcaaccacca 60  
cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaan 120  
tataaagatg gcagagacat tcctatttac ctgagagtcg gtgaacgagg gacacctga 180  
caagctctgc gaccaaattc ccgatgctgt cctcgacgct tgccctgagc aggaccaga 240  
cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg gtcattggtct tcggagaaat 300  
cacgaccaag gccaaagttga 320

<210> 2069  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2069

nngngcatgc acgcgtacgt nagctcggaa ttcggctcga gcaagcccca ctcaaccacc 60  
 acacctctcc tcgttcacgc tacccttttc tgctcttctt ctacctttca agtttttaaaa 120  
 gtataaagat ggacagagaca ttcctattta cctcagagtc ggtgaacgag ggacaccctg 180  
 acaagctctg cgaccaaadc tccgatgctg tcctcgacgc ttgcctcgag caggaccacg 240  
 acagcaaagt tgcctgcgaa acatgcacca aaaccaactt ggtcatgggtc ttcggagaaa 300  
 tcacgaccaa ggccaagt 318

<210> 2070  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2070

ngtcgcangc acgcgtacgt aagctcggaa ttcggctcga gacttaacaa cagcacaaaag 60  
 cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
 aagttaaaat ggccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
 ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcagtcttg gagcaggacc 240  
 ctgacagcaa ggttgcctgt gaaacctgca ccaagaccaa catggtgatg gttttcggag 300  
 ag 302

<210> 2071  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2071

gnanatgcac gcgtacgtaa nctcgggaatt cggctcgagt tgggagttag gttctgcacg 60  
 ctctgcttcc agcgagtgtt ctttcttcgt ttcaacacct taatttgcac acgctgcttc 120

ttcagcttga gaaatggcac aagaaacctt tctattcaca tctgaatctg taaacgaggg 180  
tcaccccgac aagctgtgcg accagatctc tgatgcagtg ctcgatgcgt gccttgaaca 240  
ggaccctgac agcaagggtg cctgtgagac atgcaccaag accaacaatgg tcatggtc 298

<210> 2072  
<211> 310  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2072

cgcangcacg cgtacgtaag ctcggaattc ggctcgaggc agacttaaca acagcacaaa 60  
gcgggttact gtctgttcaa gctaccatct ctctctctct ttcttagtgc ctcttttccc 120  
agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
ccctgacagc aagggtgcct gtgaaacctg caccaagacc aacatgggtga tggttttcgg 300  
agagatcacn 310

<210> 2073  
<211> 289  
<212> DNA  
<213> Glycine max  
<400> 2073

agtcgcatgc acgcgtacgt aagctcgga ttcggctcga ggggttactg tctgttcaag 60  
ctaccatctc tctctctctt tcttagtgcc tccttgccag aagttaaaat gggcccaaga 120  
aactttccta ttcacatctg aatcagtga cgagggggcac cctgacaagc tctgtgacca 180  
gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca aggttgcctg 240  
tgaaacctgc accaagacca acatgggtgat ggttttcgga gagatcaca 289

<210> 2074  
<211> 309  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2074

tcgcangnan gcgtacgtaa gctcgggaatt cggctcgagn cagacttaac aacagcacia 60  
agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg ctccttgcc 120  
agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
ccctgacagc aaggttgctt gtgaaacctg caccaagacc aacatgggtga tggttttcgg 300  
agagatcac 309

<210> 2075  
<211> 308  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2075

gtcnngcac gcgtacgtaa gctcgggaatt cggctcgagc agacttaaca acagcacaaa 60  
gcgggttact gtctgttcaa gctaccatct ctctctctct ttcttagtgc ctccttgcca 120  
gaagttaaaa tggcccaaga aactttccta ttcacatctg aatcagtga cgagggggcac 180  
cctgacaagc tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac 240  
cctgacagca aggttgcttg tgaaacctgc accaagacca acatgggtgat ggtttttcgg 300  
gagatcac 308

<210> 2076  
<211> 310  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2076

gtcgcacgca cgcgtacgtn agctcggant tcggctcgag cttaacaaca gcacaaagcg 60  
ggttactgtc tgttcaagct accntctctc tctctctttc ttngtgctc cttgccagaa 120  
gttaaaatgg cccaaganac tttcctattc acntctgant cngtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatgg tttcggagag 300  
atcacaacca 310

<210> 2077  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2077

cnnatgcacg cgtacgtaag ctcggtctga gccgaatcgg ctcgagggtg agaccaagac 60  
 aactcgttc atatatctct ctgctcttct cttactcttc tacctctcaa gtttttgaag 120  
 tataaagatg gcagagacat tcctattcac ctcgaggtca gtgaacgagg gacaccctga 180  
 taagctctgc gaccaaactct ccgatgctgt cctcgacgct tgcctcgaac aggacccaga 240  
 cagcaagggtt gcctgcgaaa catgcaccaa gaccaacttg gtcatggtct tcggagagat 300  
 caccaccaag 310

<210> 2078  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2078

cagtcgcang cacgcgtacg taagctctgt aattcggctc gagcagactt aacaacagca 60  
 caaagcgggt nactgtctgt tcaagctacc atntctctnt ctctttctta gtggctcctt 120  
 gccanaagtt aaaatggccc aagaaacttt cctatncaca tctgaatcag tnaacgangg 180  
 gcaccctgac aagctctgtg accagatctc cgatgctgtg ctgatgcat gctgggagca 240  
 ggaccctgnc agcaagggttg cctgtgaaac ctgcaccaag accaacaatgg tgatgggtttt 300  
 cggagagatc acaaccaagg nnagc 325

<210> 2079  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2079

ctcgagccgc tcgagccgat tcggctcgag ctcccagct catncccttg agccatgtca 60

ctgccacgac gctcgggtgcc aagctcaccg aggttaggna gaacgggaca tgcccttggc 120  
 tgagacctga tggcaagacc caagtcactg ttgagtacta caatgacaag ggtgccatgg 180  
 ttccaatccg cgtccacact gtgctcatct ccacacagca tgatganctg tcacaaatga 240  
 tgagattgc 249

<210> 2080  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2080

annnnctgt acgt nagctn ngacatcggg attcggctcg agncagactt nacaacagca 60  
 caaagcgggt tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt 120  
 gccagangtt naaatgggcn caagaaactt tcctattcac atctgnatca gtgaacgagg 180  
 ggcaccctga caagctctgt gaccagatct ccgatgctgt gctcgatgca tgcttgagc 240  
 aggaccctga cagcaagggt gcctgtgaaa cctggcacca agaccaacat ggtgatggtt 300  
 ttcggagaga tcacaaccaa ggcca 325

<210> 2081  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2081

nnangcacgc gtacgtaagc tcggaattcg gctcgagcag acttaacaac agcacaaagc 60  
 gggttactgt ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga 120  
 agttaaaatg gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc 180  
 tgacagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
 gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatggt tttcggagag 300  
 atcacaacca aggcca 316

<210> 2082  
 <211> 303  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 2082

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ncgtcgcacg cagcgcgtacg taagctcggg atttcggctc gaggggttac tgtctgttca 60
agctaccatc tctctctctc tttcttagtg cctccttgcc agaagttaaa atggcccaag 120
aaactttcct attcacatct gaatcagtga acgaggggca ccctgacaag ctctgtgacc 180
agatctccga tgctgtgctc gatgcatgct tggagcagga ccctgacagc aaggttgccct 240
gtgaaacctg cnaccaagac caacatggtg atgggttttcg gagagatcac aaccaangcc 300
aac 303
```

<210> 2083

<211> 333

<212> DNA

<213> Glycine max

<400> 2083

```
gtcgcacgca cgcgtacgta agctcgggaat tcggctcgag aagccccact caaccaccac 60
acctctcctc gttcacgcta cccctttctg ctcttcttct acctttcaag ttttaaaagt 120
ataaagatgg cagagacatt cctattttacc tcagagtcgg tgaacgaggg acaccctgac 180
aagctctgcg accaaatctc cgatgctgct ctcgacgctt gcctcgagca ggaccagac 240
agcaaagttg cctgcgaaac atgcacaaaa accaattggt catgggtcttc ggagaaatca 300
cgaccaaggc caagttgact acgagaagat atg 333
```

<210> 2084

<211> 287

<212> DNA

<213> Glycine max

<400> 2084

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gcacgcgtac gtaagctcgg aattcggctc gaggtgcctt ctctgggaag gatcctacca 60
aggttgatag gagtggtgcc tacattgtga ggcaagctgc aaagagcatt gttgcaaattg 120
gacttgctag gagggcaatt gtgcaagttt cctatgccat tgggtgtgcct gagccctgtc 180
tgtgtttgtt gacacttatg gcactgggaa gatcccgaca aggaaatcct cagcatgtga 240
aggagagttt tgactcagcc ggcagatctc catcaacctg atctcaa 287
```

<210> 2085  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 2085

cgtagcgtacg ctcggaattc ggctcgagca gcacaaagcg ggttactgtc tgttcaagct 60  
 accatctctc tctctctttc ttagtgccctc cttgccagaa gttaaaatgg cccaagaaac 120  
 tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctct gtgaccagat 180  
 ctccgatgct gtgctcgatg catgcttggg gcaggaccct gacagcaagg ttgcctgtga 240  
 aacctgcacc aagaccaaca tggatgatggg tttcggagag a 281

<210> 2086  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 2086

gcacgcgtac gtaagctcgg gaattcggct cgaggcagac ttaacaacag cacaagcg 60  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgccctc ttgccagaag 120  
 ttaaaatggc ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg 180  
 acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttggag caggaccctg 240  
 acagcaagggt tgcctgtgaa acctgcacca agaccaacat ggtgatgggt ttcg 294

<210> 2087  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2087

gtcgcangca cgcgtacgta agctcggat tcggctcgag ttaacaacag cacaagcg 60  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgccctc ttgccagaag 120  
 ttaaaatggc ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg 180  
 acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttggag caggaccctg 240

acagcaaggt tgcctgtgaa acctgcacca agaccaacat ggtgatggtt ttcg 294

<210> 2088

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2088

nngtcgcang cacgcgtacg taagctcgga attcggctcg agacagcaca aagcgggta 60

ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc cagaagttaa 120

aatggcccaa gaaactttcc tattcacatc tgaatcagt aacgaggggc accctgacaa 180

gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag 240

caaggttgcc tgtgaaacct gcaccaagac caacatggtg atggttttcg 290

<210> 2089

<211> 322

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2089

agtcgcangc angcgtacgt nagctcgga ttcggctcga ggcagactta acaacagcac 60

aaagcgggtt actgtctgtt caagctacca tctctcnctc tctttcttag tgctccttg 120

ccagaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt gnacgagggg 180

caccctgaca agctctgtga ccagatctcc gatgctgtgc tcgatgcatg ctcgagcag 240

gaccctgaca gcaaggttgc ctgtgaaacc tgcaccaagn ccaacntggt gatggttttc 300

ggagannnca anccaagggc an 322

<210> 2090

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2090

tcgcangcac gcgtacgtaa gctcggaatt cggctcgagn ggccaggcaa gccccactca 60

accaccacac ctctcctcgt tcacgctacc ctttctgct cttcttctac ctttcaagtt 120

ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180  
 accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgcgaaacat gcaccanaac caacttggtc atggctcttcg 300  
 gagaaatcac gaccaagg 318

<210> 2091  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2091

tcgcangcac gcgtacgtna gctcgggaatt cggctcgagc ttaacaacag caciaagcgg 60  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagaag 120  
 ttaaaatggc ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg 180  
 acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttggag caggaccctg 240  
 acagcaagg tgcctgtgaa acctgcacca agaccaacat ggtgatgggtt ttcggagaga 300  
 t 301

<210> 2092  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2092

gtcgcatgca cgcgtacgtn agctcggaaat tcggctcgag ccaagcccca ctcaaccacc 60  
 acacnactct ctctgctctt cttctacctt tcaagttttt aaagtattaa gatggcagag 120  
 acattcctat ttacctcaga gtcagtgaac gagggacacc ctgacaagct ctgcgaccaa 180  
 atctccgatg ctgtcctcga cgcttgctt gaacaggacc cagacagcaa ggttgctctgc 240  
 gaaacatgca ccaagaccaa cttggtcatg gtcttcggag agatcacca 289

<210> 2093  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        2093

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gtcgcacgca cgcgtacgta agctcggaat tcnctcgag gcccactca accaccacac   60
ctctctctgt tcacgctacc cctttctgct cttcttctac ctttcaagtt ttaaaagtat  120
aaagatggca gagacattcc tatttacctc agagtcggtg aacgaggac accctgacaa  180
gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg acccagacag  240
caaagttgcc tgcgaaacat gcaccanaac caacttggtc atggtcttcg gagaaatcac  300
gaccaaggc                                     309
```

<210>        2094  
 <211>        336  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2094

```
tcgcangcac gcgtacgtaa gctcggaatt cggtcgagg ggccaggcaa gcccactca   60
accaccacac ctncgctcg ttcacgtac ccctttctgc tcttcttcta cctttcaagt  120
tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgaggga  180
caccctgaca agctctgcga ccaaactctc gatgctgtcc tcgacgcttg cctcgagcag  240
gaccagaca gcaaagttgc ctgcgaaaca tgcaccanaa ccaacttggt catggtcttc  300
ggagaaatca cgaccaaggc caagttgact acgaga                                     336
```

<210>        2095  
 <211>        202  
 <212>        DNA  
 <213>        Glycine max

<400>        2095

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tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc   60
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc  120
atgcttgag caggaccctg acagcaaggt tgcctgtgaa acctgcacca agaccaacat  180
ggtgatggtt ttcggagaga tc                                     202
```

<210> 2096  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2096

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ctcgagccgg aacttaacaa 60  
 cagcacaaag cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc 120  
 tccttgccag aagttaaaat ggccaagaa actttcctat tcacatctga atcagtgaac 180  
 gaggggcacc ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcattgcttg 240  
 gagcaggacc ctgacagcaa ggttgccctgt gaaacctgca ccaagaccaa catgggtgatg 300  
 gttttcggag agatc 315

<210> 2097  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2097

cnaagagtcg catgcacgcg tacgtaagct cggaattcng ctganggca agccccactc 60  
 aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt 120  
 tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggg 180  
 caccctgaca agctctgcga ccaaattctc gatgctgtcc tcgacgcttg cctcgagcag 240  
 gaccagaca gcaaagttgc ctgcgaaaca tgcaccanna ccaacttggg catggtcttc 300  
 ggagaaatca cgaccaaggc ca 322

<210> 2098  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2098

nnnttcnngc actcgtacgn aagctcgga ttcggctcga ggaccaagcc ccaactcaacc 60  
 accacaccac tctntctggc tcttcttcta cctttcaagt tnttaaagta ttaagatggc 120

ngagacagcc ctatttaccn cagagtcagt gaacgangga caccctgaca agctctgcga 180  
 ccaaattctcc gatgctgtcc tcgacgcttg ccttgaacag gaccagaca gcaagggtgc 240  
 ctgcgaaaca tgcaccaaga ccaacttggc catggtctnc ggagagatca ccaccaaggc 300  
 caacggt 307

<210> 2099  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2099

tatgcntnca cgcgtacgta agctcgagaa ttcggctcga gaggccaggc aagccccact 60  
 caaccaccac acctctnctc gttcacgcta ccccttaatg ctcttctnct acctttnaag 120  
 ttttaaaagt ataaagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg 180  
 acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagcn 240  
 cgaccagac agcaaagttg cctgcgaaac atgcaccaan accaacttgg tcatggtctt 300  
 cggagaaatc acgaccaagg cca 323

<210> 2100  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2100

gcnngcacgc gtacgtaagc tcggaattcg gctcgagggt aggttctgca cgctctgctt 60  
 ccagcgagtg ttctttcttc gtttcaacac cttaatttgc acacgctgct tcttcagctt 120  
 gagaaatggc acaagaaacc tttctattca catctgaatc tgtaaacgag ggtcaccocg 180  
 acaagctgtg cgaccagatc tctgatgcag tgctcgatgc gtgccttgaa caggaccctg 240  
 acagcaaggt tgctgtgag acatgcacca agaccaacat ggtcatggt 289

<210> 2101  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 2101

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag ccaagcccca ctcaaccacc 60  
acacnactct ctctgctctt cttctacctt tcaagttttt aaagtattaa gatggcagag 120  
acattcctat ttacctcaga gtcagtgaac gagggacacc ctgacaagct ctgcgaccaa 180  
atctccgatg ctgtcctcga cgcttgccctt gaacaggacc cagacagcaa ggttgccctgc 240  
gaaacatgca ccaagaccaa cttgggtcatg gtcttcggag agatcaccac 290

<210> 2102  
<211> 301  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2102

ggtngtaagg tcggaattcg gctcgagnac cgatgaaacc cccgagtaca tgcccctcag 60  
ccatgtcctt gcaaccaaac ttggtgctcg cntcacagag gttaggaaga atggnacctg 120  
tgcttggttg aggccagatg gtaagaccaa gtaaccgtng agtactacaa tgacaatggt 180  
gccatgggtc cagttcgtgt ccacactgtn ctaatttcca cacaacanaa aanncttana 240  
aannaatgat catattgctg cggacttaaa gagcagttat tnaagcctgt gnatctgaga 300  
a 301

<210> 2103  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2103

acgtcgcgatg cacgcgtacg taagctcgga attcggctcg agcaagcccc actcaaccac 60  
cacaccactc tctctgctct tcttctacct ttcaagtttt taaagtatta agntggcaga 120  
gacattccta ttacctcag agtcagtgaac cgagggacac cctgacaagc tctgcgacaa 180  
atctccgatg ctgtcctcga cgcttgccctt gaacangacc cagacagcaa ggttgccctgc 240  
gaaacatgca ccaagaccaa cttgggtcatg gtcttcggag agatcaccac caaggccaag 300  
ttgactagag a 311



<210> 2104  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2104

gnacangcac gcgtacgtaa gctcgggaatt cggctcgagg cagacttaac aacagcacia 60  
 agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120  
 agaagttaaa atggcccaag aaacttttct attcacatct gaatcagtga acgaggggca 180  
 cctgacaagc tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac 240  
 cctgacagca aggttgccctg tgaaacctgc accaagacca acatgggtgat ggttttcgga 300  
 gagatcacia cca 313

<210> 2105  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2105

ttncngcacg cgtacgtaag ctcggaattc ggctcgagnt aacaacagca caaagcgggt 60  
 tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120  
 aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac 180  
 aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttgagca ggaccctgac 240  
 agcaagggtg cctgtgaaac ctggcaccaa gaccaacatg gtgatggttt tcggagagat 300  
 cacaac 306

<210> 2106  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2106

agttcanaca gcgtacgana gctcgggaant cggctcgagg gccaggcnag ccnatcaac 60

cancacacnt ctctacnct cacgctacnc cttgctgcnc ttncgcgac ntnngcaagt 120  
nctnaaaagt ataaagatgg cagagacatn cctantnacc ncagagtcgg tgaacgaggg 180  
anaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagca 240  
ggacccagac agcaaagttg cctgcgaaac atgcacaaa accaacttgg tcatggtctt 300  
cggagaaatc acgaccaagg ccaac 325

<210> 2107  
<211> 294  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2107

aanngangca cgcgtacgta agctcggaat tcggctcgag caacagcaca aagcnggtta 60  
ctgtctgttc aagctaccat ctctctctct cttcttagt gcctccttgc cagaagttaa 120  
aatggcccaa gaaactttcc tattcacatc tgaatcagt aacgaggggc accctgacaa 180  
gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag 240  
caaggttgcc tgtgaaacct gcaccaagac caacatggtg atggttttcg gaga 294

<210> 2108  
<211> 304  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2108

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag ctcgagccgc aacagcacia 60  
agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagt cctccttgcc 120  
agaagttaaa atggcccaaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
ccctgacagc aaggttgccct gtgaaacctg caccaagacc aacatggtga tggttttcgg 300  
agan 304

<210> 2109  
<211> 303  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 2109

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gagacttaac aacagcacia 60  
 agcgggttac tgtctgttca agctacnate tctctctctc tttcttagtg cctccttgcc 120  
 agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
 ccctgacagc aagggtgcct gtgaaacctg caccaagacc aacatgggtga tggttttcgg 300  
 aga 303

<210> 2110  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2110

ngtngcatgc acgcgtacgt aagctcggaa ttcggctcga gcgagccatt tgggagttag 60  
 gttctgcacg ctctgcttcc agcgagtgtt ctttcttctg ttcaaacact taatttgcac 120  
 acgctgcttc ttcagcttga gaantggcac aagaaacctt tctattcaca tctgaatctg 180  
 taaacgaggg tcaccccgac aagctgtgcg accagatctc tgatgcagtg ctcgatgcgt 240  
 gccttgaaca ggacctgac agcaagggtg cctgtgagac atgcaccaag accaakatgg 300  
 tca 303

<210> 2111  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2111

acgtcgcattg cacgcgtacg taagctcggaa attcggctcg agattttggga gttaggttct 60  
 gcacgctctg cttccagcga gtgttctttc ttcgtttcaa caccttaatt tgcatacgtc 120  
 gcttcttcng cttgagaaat ggcacaagaa acctttctat tcacatctga atctgtaaac 180  
 gaggtgcacc ccgacaagct gtgcgaccag atctctgatg cagtgcctga tgcgtgcctt 240

gaacaggacc ctgacagcaa ggttgccctgt gagacatgca ccaagaccaa catggtca 298

<210> 2112

<211> 286

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2112

nncgcangca cgcgtacgta agctcgggaat tcggctcgag agccccactc aaccaccaca 60

ccactctctc tgctcttctt ctacctttca agttttttaa gtattaagat ggcagagaca 120

ttcctattta cctcagagtc agtgaacgag ggacaccctg acaagctctg cgaccaaadc 180

tccgatgctg tnntcgacgc ttgccttgaa caggacccag acagcaaggc tgcctgcgaa 240

acatgcacca agaccaactt ggtcatggc ttcggagaga tcacca 286

<210> 2113

<211> 316

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2113

cacgtcgcan gcacgcgtac gtaagctcgg aattcggctc gagtgacaag gagattctgc 60

aaattgtgaa ggagaatttc gacttcagac ctggaatgat caccattaac ttggacctta 120

agaggggtgg tcataggttc ctcaagacag ctgcttatgg acactttgga agggatgatg 180

cagacttcac ctgggaagtt gtgaagccac tcaagtcaga gaagcctcaa gcttaagagt 240

gttggttaagt taatcactcc cttcagtgga tgtcttgctg ggtgtggatg aataatttgc 300

gtgtttcatg actact 316

<210> 2114

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2114

tgcangcacg cgtacgtaag ctcggaattc ggctcgagnt atcaagcctg tcatttctga 60

gaagtacctt gatgacatgc tctttaaggt ccgcagcaat ttgatcattg ctcacagtct 120  
 ncatcatggt ggggtggacct taaagagcan nttntcaage ctgtcattcc tgagaagtac 180  
 cttgatgaga agaccatctt ccaccttaac ccttctggcc gttttgtcat tgggtggccct 240  
 catggtgang ctgcnctcac tggaagaaag atcatcattg atacctatgg tggctgggggt 300  
 gctcatgg 308

<210> 2115  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2115

ctngcnctng tacgtnagct cggaattcgg ctcgaggnac caagccccac tcaaccacca 60  
 cacnactctc tctgctcttc ttctaccttt caagttttta aagtattaag atggcagaga 120  
 cattcctatt tacctcagag tcagtgaacg agggacaccc tgacaagctc tgcgaccaaa 180  
 tctccgatgc tgtcctcgac gcttgcccttg aacaggaccc agacagcaag gttgcctgcy 240  
 aaacatgcac caagaccaac ttggtcatgg tcttcggaga gatc 284

<210> 2116  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2116

cgcangcacg cgtacgtaag ctcggaattc ggctcgagcc aagccccact caaccaccac 60  
 accactctct ctgctcttct tctacctttc aagtttttaa agtattaaga tggcagagac 120  
 attcctattt acctcagagt cagtgaacga gggacaccct gacaagctct gcgaccaaatt 180  
 ctccgatgct gtcctcgacg cttgccttga acaggaccca gacagcaagg ttgcctgcga 240  
 aacatgcacc aagaccaact tgggtcatgg cttcggagag atc 283

<210> 2117  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2117

ngtcgcatgc acgcgtacgt aagctcggaa ttcggctcga ggacttaaca acagcacaaa 60  
 gcgggttact gtctgttcaa gctaccatct ctctctctct ttcttagtgc ctccttgcca 120  
 gaancgcaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
 ccctgacagc aagggttgct gtgaaacctg caccaagacc aacatgggtga tggttttc 298

<210> 2118  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2118

annnaancaa gcgtacgtaa gctcgggaatt cggctcgagg ttaggttctg cacgctctgc 60  
 ttccagcgag tggttcttct tcgtttcaac accttaattt gcacacgctg cttcttcagc 120  
 ttgagaaatg gcacaagaaa cttttctatt cacatctgaa tctgtaaacg agggtcaccc 180  
 cgacaagctg tgcgaccaga tctctgatgc agtgctcgat gcgtgccttg aacaggaccc 240  
 tgacagcaag gttgcctgtg agacatgcac caagaccaac atgggtcat 288

<210> 2119  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2119

tgcangcacg cgtacgtaag ctcggaattc nctcgaggc annacnccan tncaaccacc 60  
 acacctctcn tcgttcangc tannnaaatn ctgctgttct tctacctgtc aagttttgaa 120  
 agtatanaga tggcaganac attcctattt acctcanagt cgggtgaacga gggacaccct 180  
 gacaagctct gcgaccaaatt ctccgntgct gtcctcgacg cttgcntcga gcagnaccca 240  
 gacagcaaag ttgccngcga nacatggacc aaaaccaact tggtcatggt ntccggagaa 300  
 atcacgacca aggccaacgt tgactacnn 329

<210> 2120  
 <211> 277  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2120  
  
 ggccaggcaa gccccactca accaccacac ctctcctcgt tcacgctacc cttttctgct 60  
 ctttttctac ctttcaagtt ttaaaagtat aaagatggca gagacattcc tatttncctc 120  
 agagtcggtg aacgagggac accctgacaa gctctgcgac caaatctccg atgctgtcct 180  
 cgacgcttgc ctcgagcagg acccagacag caaagttgcc tgcgaaacat gcaccaaaac 240  
 caacttggtc atggtcttcg gagaaatcac gaccaag 277

<210> 2121  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2121  
  
 cgcangcacg cgtacgtaag ctcggaattc ggctcgagca agccccactc aaccaccaca 60  
 cgcgtcnctc tngcgcttct tctacctttc aagtttttaa agtattaaga tggcaganac 120  
 attcctatth acctcagagt cagtgaacga gggacaccct gacaagctct gcgaccaaht 180  
 ctccgatgct gtcctcgacg cttgccttga acaggaccca gacagcaagg ttgcctgcga 240  
 aacatgcacc aagaccaact tggatcatggt ctteggagag atcacc 286

<210> 2122  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2122  
  
 annctgaanc gtangnaagc ntacgnattc ngctcgagng gcaggcaagc cccactcaan 60  
 caccacacct gctcctgcgt ncangctnac ccgtnnnngan gnnatgacta cctntcaagt 120  
 tntaaaagta tngnanatgg cngagacatt cctatthtacc tcagagtcgg tgaacgaggg 180  
 acaccctgac aagctctgcg accaaatctc cgntgctgtc ctcgacgctt gcctcgagca 240

ggacccagac agcaaagttg cctgcgaaac atgcaccacc accaagttgg tcatgggtctt 300  
 cggagaaaatc acgaccaagg cnaacgttac tacgagann 339

<210> 2123  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2123

anctcttacc ggctntntng cccaaaaatng tanangcttc ccggctcgac ncacgcgten 60  
 gtacggctgc gagaagacga cagaaggggg cagctcttga ttnnaggnc ngcaancccc 120  
 actcaancac cacacctctc ctcggttcacg ctatcccttt ctgctcttct tctacctttc 180  
 angttttaan agtacncaca tggcaagaca cattcctatt tanctnagac tcggtgaann 240  
 acggacaccc tgacaagctc tgcgaccaa tctccgatnc tgtcctcgac gcttgccctcg 300  
 ancaggactc agacancana nttgcctgcn aaacatgcac caaaaccaac ttgggtcatgg 360  
 tcttcngaga antcacgacc aaggccaacn ttgactacga aaaganngtg cgttacacct 420  
 gccgggaaca tcggcttctt tcnaaatgat gttgggactg gatgccgacc actgcatngg 480

<210> 2124  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2124

anntcgcang cacgcgtacg tnagctcgga attcggctcg agccttaaca acagcacaaa 60  
 gcgggttact gtctgttcaa gctaccatct ctctctctac tttcttagtg cctccttgcc 120  
 agangttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
 nncctgacag caaggttgcc tgtgaaacct gcaccaagac caacatgggtg atgggttttcg 300  
 gagagat 307

<210> 2125  
 <211> 307  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 2125

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tcgnngacgc gtacgtaagc tcggaattcg gctcgaggac ttaacaacag cacaaagcgg 60
gttactgtct gttcaagcta ccattctctt ctctctctt ctnagtgcct ccttgccaga 120
agttaaaatg gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc 180
tgaaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240
gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatgg tttcggagag 300
atcaca                                           307
```

<210> 2126

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2126

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ttcgcatgca cgcgtacgta agctcggaa tcggctcgag caacagcaca aagcgggtta 60
ctgtctgttc aagctacat ctctctctt cttctttagt gcctccttgc cagaagttaa 120
aatggcccaa gaaactttcc tattcacatc tgaatcagt aacgaggggc accctgacaa 180
gctctgtnac cagatctccg atgctgtgct cgatgcatgc ttggagcagg accctgacag 240
caaggttgcc tgtgnaaacc tggcaccaag accaacaatg tgatggtttt cggagagatc 300
acaaccaag                                           309
```

<210> 2127

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2127

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aaaanntnaa nagegtacgt aagctcggaa ttcggctcga gnagacacac tcgttcatat 60
atctctctgc tcttctcttc tcttctacct ctcaagtttt tgaagtataa agatggnaga 120
gacattccta ttcacctcgg agtcagtga cgagggacac cctgataagc tctgcgacca 180
aatctccgat gctgtcctcg acgcttgct cgaacaggac ccaganagca aggttgctg 240
```

cgaaacatgc accaagacca attggtcatg gtcttcggag agatcaccac caaggccaac 300  
gt 302

<210> 2128  
<211> 288  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2128

gtcgcangca cgcgtacgtn agctcggaat tcggctcgag cacanagcgg gttactgtct 60  
gttcaagcta ccattctctac tctctctttc ttagtgcttc cttgccagaa gttanaatgg 120  
cccaagaaac tttctatttc acgtctgaat cagtgaacga ggggcaccct gacaagctct 180  
gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct gacagcaagg 240  
ttgcctgtga aacctgcacc aagaccaaca tggatgatgt tttcggag 288

<210> 2129  
<211> 279  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2129

gtcgcangca cgcgtacgta agctcggaat tcggctcgag cacactcggt catatatctc 60  
tctgctcttc tcttctcttc tacctctcaa gtttttgaag tataaagatg gcagagacat 120  
tcctattcac ctccgagtc gtgaacgagg gacaccctga taagctctgc gaccaaactc 180  
ccgatgctgt cctcgacgct tgccctgaac aggaccaga cagcaagggt gcctgcgaaa 240  
catgcaccaa gaccaacttg gtcatggtct tcggagaga 279

<210> 2130  
<211> 301  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2130

cgtcgcntgc acgcgtacgt aagctcgga attcggctcg agcgagccat ttgggagtta 60

ggttctgcac gctctgcttc cagcgagtgt tctttcttcg tttcaacacc ttaatttgca 120  
 cacgctgctt cttcagcttg agaaatggca caagaaacct ttctattcac atctgaatct 180  
 gtaaacgagg gtcaccccga.caagctgtgc gaccagatct ctgatgcagt gctcgatgcg 240  
 tgccttgaac aggaccctga cagcaagggt gcctgtgaga catgcaccaa gaccaacatg 300  
 g 301

<210> 2131  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2131

gtcgcangca cgcgtacgta agctcggaaat tcggctcgag gcagacttaa caacagcaca 60  
 aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 120  
 cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180  
 accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
 accctgacag caagggtgcc tgtgaaacct gcaccaagac caacatggtg atgggttttn 299

<210> 2132  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
 <400> 2132

gtcgcatgca cgcgtacgta agctcggaaat tcggctcgag gcagacttaa caacagcaca 60  
 aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 120  
 cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180  
 accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
 accctgacag caagggtgcc tgtgaaacct gcaccaagac caacatggtg atgggttttc 299

<210> 2133  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 2133

gtcgnacaca aagcgtagtn aagctcggaa ttcggctcga gcgagattc ttcaaattgt 60

gaaggagaat ttcgacttca gacctggaat gatcaccatt aacttggacc ttaagagggg 120

tggccatagg ttcctcaaga cagctgctta tggacacttt ggaagggatg accctgactt 180

cacctgggaa gttgtgaagc cactcaagtc tgagaagcct caagcttaag attgtttgtga 240

agttaatcac tcccttcaat ggatgtcttg ctaggtgtgg atgaataatt tgcgtgttcc 300

atgactacta ctacttcac 320

<210> 2134

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2134

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caccacacct ctctcgttc acgctacccc tttctgctct tcttctacct ttcaagtttt 120

aaaagtataa agatggcaga gacattccta tttacctcag agtcggtgaa cgagggacac 180

cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt cgagcaggac 240

ccagacagca aagttgcctg cgaaatntgc accaaaacca acttggtcat ggtcttcgga 300

gaaatcacga cca 313

<210> 2135

<211> 316

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2135

angnatcgca ngcncgcgta cgtnagctcg gaattcggct cgagggccag gcaagcccca 60

ctcaaccacc acacctctcc tcgttcncgc taccocctttc tgctcttctt ctacctttca 120

ngtttttaaaa gtataaagat ggcagagaca ttcctattta cctcagagtc ggtgaacgag 180

ggacaccctg acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgcctcgag 240

caggacccag acagcaaagt tgcttgcgaa acatgcacca aaaccaactt ggtcatggtc 300

ttcggagaaa tcacga 316

<210> 2136  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2136

agtcgcangc acgcgtacgt aagctcggaa ttcnctcga ggcaagcccc actcaaccac 60  
cacacctctc ctcggttcacg ctaccccttt ctngctcttc ttctaccttt ccaagtttta 120  
aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc gagcaggacc 240  
cagacagcaa agttgcctgc gaaacatgca ccaaaaccaa cttgggtcatg gtcttcggag 300  
aatcacga 309

<210> 2137  
<211> 280  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2137

cgcangcacg cgtacgtaag ctcggaattc ggctcgagca caaagcgggt tactgtctgt 60  
tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt aaaatggccc 120  
aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccngac aagctctgtg 180  
accagatctc cgatgctgtg ctcgatgcat gcttggagca ggaccctgac agcaaggttg 240  
cctgtgaaac ctgcaccaag accaacaatgg tgatggtttt 280

<210> 2138  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2138

gtcgcangca cgcgtacgta agctcggaa tcggctcgag cggctcgaga tttgggagtt 60  
aggttctgca cgctctgctt ccagcgagtg ttctttcttc gtttcaacac cttaatgtgc 120

acacgctgct tcttcagctt gagaaatggc acaagaaacc tttctattca catctgaatc 180  
 tgtaaacgag ggtcaccccg acaagctgtg cgaccagatc tctgatgcag tgctcgatgc 240  
 gtgccttgaa caggaccctg acagcaaggt tgcctgtgag acatgcacca agaccaacat 300  
 ggt 303

<210> 2139  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2139

gtcgnatgca cgcgtacgta agctcggaat tcggctcgag tttgggagtt aggttctgca 60  
 cgctctgctt ccagcgagtg ttctttcttc gtttcaacac cttaatttgc acacgctgct 120  
 tcttcagctt gagaaatggc acaagaaacc tttctattca catctgaatc tgtaaacgag 180  
 ggtcaccccg acaagctgtg cgaccagatc tctgatgcag tgctcgatgc gtgccttgaa 240  
 caggaccctg acagcaaggt tgcctgtgag acatgcacca agaccaacat ggt 293

<210> 2140  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2140

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 cccactcaac caccacacct ctctcgttc acgctacccc tttctgctct tcttctacct 120  
 ttcaagtttt aaaagtataa agatggcaga gacattccta tttacctcag agtcggtgaa 180  
 cgagggacac cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct 240  
 cgagcaggac ccagacagca aagtngcctg cgaaanatgc accagaacca acttggtcat 300  
 ggtcttcgga gaaatcacga ccaag 325

<210> 2141  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        2141

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ntcgcangca cgcgtacgta agctcgggaat tcggctcgag ctgacaagga gattcttcaa   60
attgtgaagg agaattncga cttcanacct ggaatgatca ccattaactt ggaccttaag  120
aggggtggcc ataggttcct caagacagct gcttatggac actttggaag ggatgaccct  180
gacttcacct gggaagtgtg gaagccactc aagtctgaga agcctcaagc ttaagattgt  240
tgtgaagtta atcactccct tcaatggatg tcttgctagg tgtggatgaa taatttgc   298
```

<210>        2142  
 <211>        301  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2142

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cgctnnacgt cgcangcacg cgtacgtaan ctcggaattc ggctcgagnt tgggagttag   60
gttctgcacg ctctgcttcc agcgagtgtt ctttcttcgt ttcaacacct taatttgcac  120
acgctgcttc ttcagcttga gaaatggcac aagaaacctt tctattcaca tctgaatctg  180
taaacgaggg tcaccccgac aagctgtgcg accagatctc tgatgcagtg ctcgatgcgt  240
gccttgaaca ggacctgac agcaaggttg cctgtgagac atgcaccaag accaacaatgg  300
t                                                                    301
```

<210>        2143  
 <211>        283  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2143

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gcgtacgtaa gctcgggaatt cggctcgagc aacagcacia agcgggttac tgtctgttca   60
agctaccatc tctctctctc tttcttagtg cctccttgcc agaagttaaa atggcccaag  120
aaactttcct attcacatct gaatnagtga acgaggggca ccctgacaag ctctgtgacc  180
agatctccga tgctgtgctc gatgcatgct tggagcagga ccctgacagc aaggttgcct  240
gtgaaacctg caccaagacc aacatggtga tggttttcgg aga                          283
```

<210> 2144  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2144

```
ncgtcgcacg cagcggtacg taagctcgga attcggctcg agcaacagca caaagcgggt 60
tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120
aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac 180
aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttggagca ggaccctgac 240
agcaagggtg cctgtgaaac ctgcaccaag accaacaatgg tgatggtttt cgg 293
```

<210> 2145  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2145

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gtcgcangca cgcgtacgta agctcggaat tcggctcgag cttaacaaca gcacaaagcg 60
ggttactgtc tgttcaagct accatctctc tctctctttc ttagtgcctc cttgccagtt 120
aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac 180
aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttggagca ggaccctgac 240
agcaagggtg cctgtgaaac ctgcaccaag accaacaatgg tgatggtttt cgga 294
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<210> 2146  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2146

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gtcgcangca cgcgtacgta agctcggaat tcggctcgag acttaacaac agcacaaagc 60
gggttactgt ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga 120
agttaaaatg gcccaagaaa ctttcttatt cacatctgaa tcagtgaacg aggggcaccc 180
tgacaagctc tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc 240
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tgacagcaag gttgcctgtg aaacctgcac caagaccaac atggtgatgg t 291

<210> 2147

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2147

acgcgtacgt aagctcggaa ttcggctcga gggccaggca agccccactc aaccaccaca 60

cntctcctgc gttcangcta cccctttctn gctcttcttc tacctntcaa gtnttaaaag 120

tataaagatg gcagagacat tcctatttac ctgagagtcg gtgaacgagg gacaccctgn 180

caagctctgc gaccaaactc ccgatgctgt cctcgacgct tgcctcgagc aggaccacaga 240

cagcaaagtt gcctggcgaa acatgcacca ntnnnacttg gtcatggtct tcggagaaat 300

cacgaccaag gccaacgttg actacgagaa gatagtgcgt 340

<210> 2148

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2148

agnanctgca cgcgtacgta agctcggaaat tcggctcgag atttgaggnc aggcaagccc 60

cactcaacca ccacacctct cctcgttcac gctacccctt tctgctcttc ttctaccttt 120

caagttttta aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg 180

agggacaccc tgacaagctc tgcgacaaaa tctccgatgc tgtcctcgac gcttgccctcg 240

agcaggaccc agacagcaaa gttgcctgcg aaacatgcac caaaaccaac ttggtcatgg 300

tcttcggaga aatcacgac 319

<210> 2149

<211> 198

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2149

tagtgcctcc	ttgccagaag	ttaaaatggc	ccaaganact	ttcctattca	natctgaatc	60
agtgaacgag	gggcaccctg	acaagctctg	tgaccagatc	tccgatgctg	tgctcgaatc	120
atgcttgag	caggaccctg	acagcaagg	tgctgtgaa	acctgcacca	agaccaacat	180
ggtgatggtt	ttcggaga					198

<210> 2150  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2150

ngtcncangc	acgcgtacgt	nagctcggaa	ttcggctcga	ggcacaaagn	gggttactgt	60
ctgttcaagc	taccatctct	ctctctgctt	tgcttagtgc	ctccttgcca	gaagttaaaa	120
tggcccaaga	aactttccta	ttcacatctg	aatcagtga	cgaggggcac	cctgacaagc	180
tctgtgacca	gatctccgat	gctgtgctcn	ngccatgctt	ggagcaggac	cctgacagca	240
aggttgcntg	tgaacacctg	accaagacca	acatggtgat	ggttttcggg	gag	293

<210> 2151  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2151

agttgcatgc	actcgtacgt	aagctcggaa	ttcggctcga	ggctcttcgga	gaaatcacga	60
ccaaggccaa	cgttgactac	gagaagatag	tgctgacac	ctgcaggaac	atgcggcttc	120
cgtctcaa	gatgtgggac	tggtatgccga	caactgcaag	gtcctcgtca	acattgagca	180
gcagagccnt	gatattgcct	caggggtgtac	acggnccacc	ttacnnnnaa	acctgaagaa	240
nttggtgctg	gtgaccaggg	tccacatggt	tggtatgcc	atgatgaaac	cccnc	295

<210> 2152  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2152

tagtgccctcc tgcgcagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
 agtgaacgag gggcaccctg acaagtctgt gaccagatct ccgatgctgt gctcgatgca 120  
 tgcttggagc aggaccctga cagcaagggtt gcctgtgaaa cctggcacca agaccaacat 180  
 ggtgatgggtt ttcggagaga tcacaancaa ggccaacgt 219

<210> 2153  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2153

tantgcctcc ttgtcagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
 agtgaacgag gggcaccatc gacaagctct gtgaccagat ctccgatgct gtgctcgatg 120  
 catgcttggg gcaggaccct gacagcaagg ttgcctgtga aacctgcacc aagnaccaac 180  
 atggtgatgg ttttcggaga gatcacaacc aaggccaa 218

<210> 2154  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2154

cangcgtacg taagctcgga attcggctcg agacagcaca aagcgggtta ctgtctgtnc 60  
 aagcnaccat ctcnctctct ctttcttagt gcctccttgc cagaagttaa aatggcccaa 120  
 gaaactttcc tattcacatc tgaatcagtg aacgaggggc accctgacaa gctctgtgac 180  
 cagatctccg atggctgtnc tcgatgcatg cttggagcag gaccctgaca gcnaggttgc 240  
 ctgtgaaacc tgcaccaaga ccaacatggt gatgggttttc ggagagatca n 291

<210> 2155  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2155

tncngtnnnn ngcacgcgta cgtaagctcg gaattcggct cgagnactta anaanagcac 60  
aaagcggggtt actgtctgtt caagctanca tctctctctc tctttcttag tgcctccttg 120  
ccagaagtta aaatgggccc aagaaacttt cctattcaca tntgaatcag tgaacgaggg 180  
gcacctgac aagctctgtg accagatctc cgatgctgtg cttcgatgca tgcttgagc 240  
aggaccctga cagcaagggtt gcctgtgaaa cctgcaccaa gaccaacatg gtgatgggtt 300  
tcggagaga 309

<210> 2156  
<211> 313  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2156

nantcgcatt cacgcgtacg taagctcgag aatggccacn cacgccccac tcaaccacta 60  
nacntntcct cnttcacgct acccctttct gctctncttn tacntttcaa gttttaaaan 120  
nataaagatg gcagagacat tcctatttan ctcagagtcg gtgaacgagg gacaccctga 180  
caagctctgc gaccaaactc ccgatgctgt cctcgacgct tgcctcgagc aggaccacga 240  
cagcaaagtt gcctgcgana catgccacca aaaccaactt ggtcatgggc ttcggagaaa 300  
tcacgaccaa ggc 313

<210> 2157  
<211> 294  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2157

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gggtcatata tctctctgct 60  
cttctcttct cttctacctc ncaagttttt gaagtataaa gatggcagag acattnccta 120  
ttcacctcgg agtcagtga caggggacac cctgataagc tctgacacca aatctccgat 180  
gctgtctctg acgcttgctt cgaacaggac ccagacagca aggttgcttg cgaaacatgc 240  
accaagacca acttggttca tggctctcgg agagatcacc accaaggcca acgt 294

<210> 2158

<211> 285  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2158  
  
 cncgcacgcg tacgtaagct cggaattcgg ctcgagaaag cgggttactg tctgttcaag 60  
 ctaccatctc tctctctctt tcttagtgcc tccttgccag aagttaaaat ggccaagaa 120  
 actttcctat tcacatctga atcagtgaac gaggggcacc ctgacaagct ctgtgaccag 180  
 atctccgatg ctgtgctcga tgcattgctt gagcaggacc ctgacagcaa ggttgccctgt 240  
 gaaacctggc accaagacca acatggtgat ggttttcgga gagat 285

<210> 2159  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2159  
  
 gcacgngtac gtnagctcgg aattcggctc gaggccattt gggagttagg ttctgcacgc 60  
 tctgcttcca gcgagtgttc tttcttcgtt tcaacacctt aatttgcaca cgctgcttct 120  
 tcagcttgag aaatggcaca agaaaccttt ctattcacat ctgaatctgt aaacgagggt 180  
 caccgacgaca agctgtgcga ccagatctct gatgcagtgc tcgatgcgtg ccttgaacag 240  
 gaccctgaca gcaaggttgn ctgtgagact gcaccaagac caacatggtc atggtctttg 300

<210> 2160  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2160  
  
 gtcgcangca cgcgtacgta agctcggaaat tcggctcggn ctcgagccga atcggtcga 60  
 gccaaaccgat gaaacccccg agtaactgcc cctcagccat nctccttgca accaaacttg 120  
 gngctcgcnt cacagagggt aggaagaatg gcacctgtgc ttggttgagg ccagatggta 180  
 agacacaagt aaccgtcgag tactacaatg acaatgggtgc catgggttcca gttcgtgtcc 240  
 aactgtcct aatttcca 258

<210> 2161  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2161

gtcgcangcn cgcgtacgtn nagctcggaa ttcggctcga gcttgatttg aggccaggca 60  
 agccccactc aacnaccaca cctctcctcg ttcacgctac ccctttctgc ttttcttcta 120  
 ctttcaagtt ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg 180  
 aacgagggac accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc 240  
 ctcgagcagg acccagacag caaagttgcc tgcgaaacat gcacaaaaac caattggtca 300  
 tggctcttcg agaaatcacg accaaggcca acgtt 335

<210> 2162  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2162

cgcaggaccc cccacncnag ctcggaattc ggctcgagcc aagncccact caaccaccac 60  
 accactctct ctgctcttct tctacctttc aagtnngtaa agtattaaga tggcagagac 120  
 attcctatth acctcagagt cagtgaacga gggacaccct gacaagctct gcgaccaaht 180  
 ctccgatgct gtcctcgacg cttgccttga acaggacca gacagcaagg ttgcctgcga 240  
 aacatgcacc aagaccaact tggatcatggt cttggagaga tcaccac 287

<210> 2163  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2163

cngtangacg tcgcatgcac gcgtacgtaa gctcggaaat tcggctcgag ngacntaaca 60  
 acagcacaaa gcgggttact gtctgttcaa gntanccatc tntgctctct ctttcttagt 120

gcctccttgc nagaagntan aatggcccaa gnaaactttc ctattcacat ctgaatcagt 180  
gancgagggg caccctgaca agctctgtga ncagatctcc gatgctgtgc tcgatgcatg 240  
cttggagcag gaccctnaca gcaagggttc ctgtgaaacc tgcaccaaga ccaanatggt 300  
gatngttttc ggagagatc 319

<210> 2164  
<211> 327  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2164

nagnntntgc acgcgtacgt aagctcggaa ttcggctcna gcacaaagcg ggttactggc 60  
tgtncaaagt accattctct ctctctcttt cttagtgcct ccttgccata agttaaaatg 120  
gcccnagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc tgacaagctc 180  
tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg agcaggaccc tnacagcaag 240  
gttgccctgtg aaacctgcac caagaccaac atgggtgatgg tttcggagag atcacgacca 300  
aggncaantg ggtntgagaa gatngtg 327

<210> 2165  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2165

gtcgcattgca cgcgtacgta agctcggaa ttcggctcgag ggccaggcaa gcccactca 60  
accaccacac ctctcctcgt tcacgctacc cctttctgct cttcttctac ctttcaagtt 120  
ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgaggggac 180  
accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg 240  
accagacag caaagttgcc tgcgaaacat gcaccanaac caacttggtc atggtcttcg 300  
gagaaatca 309

<210> 2166  
<211> 260  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2166

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aagccccact caaccaccac acctctcttc gttcacgcta cccctttctg ctctttcttct 60
acctttcaag ttttaaaagt ataaagatgg cagagacatt cctattttacc tcagagtcgg 120
tgaacgaggg acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt 180
gcctcgagca ggaccagac agcaaagttg cctgcgaaac atgcaccaa accaacttgg 240
tcatggtctt cggagaaatc 260
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<210> 2167

<211> 266

<212> DNA

<213> Glycine max

<400> 2167

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aggcaagccc cactcaacca ccacacctct cctcggtcac gctaccctt tctgctcttc 60
ttctaccttt caagttttta aagtataaag atggcagaga cattcctatt tacctcagag 120
tcggtgaacg agggacaccc tgacaagctc tgcgaccaa tctccgatgc tgtcctcgac 180
gcttgccctg agcaggaccc agacagcaaa gttggctgcg aaacatgcac caaaaccaac 240
ttggtcatgg tcttcggaga aatcac 266
```

<210> 2168

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2168

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agncgntgca cgcgtacgta agctcggaat tcnctcgag gccaggcaag cccactcaa 60
ccaccacacc ttctccttcg ttacgctac ccctttctgc ttctttcttct acctttcaag 120
ttttaaaggt ataaagatgg cagagacatt cctattttacc tcagagtcgg tgaacgaggg 180
acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagca 240
ggaccagac agcaaagttg cctgcgaaac atgcaccana accaacttgg tcatggtctt 300
cggagaaatc acg 313
```



<210> 2169  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2169

angcacgcgt acgtaagctc ggaattcggc tcgaggccat ttgggagtta ggttctgcac 60  
 gctctgcttc cagcgagtgt tctttcttcg tttcaacacc ttaatttgca cacgctgctt 120  
 cttcngcttg agaaatggca caagaaacct ttctattcac atctgaatct gtaaaccgagg 180  
 gtcaccccgga caagctgtgc gaccagatct ctgatgcagt gctcgatgcg tgccttgaac 240  
 aggacctga cagcaagggt gcctgtgaga catgcaccaa gaccaacatg 290

<210> 2170  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2170

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ctcgagccga attcggctcg 60  
 nggagaaatc acgaccangg ccaaanttga ctacgagaag anngtgctg acacctgcag 120  
 gancatcggc ntcgtcncaa atgatgtggg actggangcc gacaactgca aggtcctcgt 180  
 caacatngag cagcanagcc ctganattgc tcaggngta cncggccacc ttacaaaaa 240  
 acctgaagaa attggtgcng g 261

<210> 2171  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2171

gtgcattcgt acgtaagctc ggaattcngc tcgaggccag gcaagcccca ctcaaccacc 60  
 acacctctcc tcgttcacgc tacccttttc tgctcttctt ctacctttca agttttaaaa 120  
 gtataaagat ggcagagacn ttctatttta cctcagagtc ggtgaacgag ggacaccctg 180  
 acaagctctg cgaccaaate tccgatgctg tcctcgacgc ttgcctcgag caggaccag 240

acagcaaagt tgcctgcgaa acatgcacca aaaccanctt ggatcatggc ttcggagaaa 300  
tcacg 305

<210> 2172  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2172

tgcgancac gcgtacgtaa gctcggaatt ctncctcgagg caagccccac tcaaccacca 60  
cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag 120  
tataaagatg gcagagacat tcctatttac ctgagagtcg gtgaacgagg gacaccctga 180  
caagctctgc gaccaaactc ccgatgctgt cctcgacgct tgcctcgagc aggaccacaga 240  
cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg gtcatggctc tccgagaaat 300  
caga 304

<210> 2173  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2173

ngangcacgc gtacgtaagc tcggaattcn gctcgaggca agccccactc aaccaccaca 60  
cctctcctcg ttcacgctac cccctttctgc tcttcttcta cctttcaagt tttaaaagta 120  
taaagatggc agagacattc ctatttacct cagagtcggt gaacgaggga caccctgaca 180  
agctctgcga ccaaactctc gatgctgtcc tcgacgcttg cctcgagcag gaccagaca 240  
gcnaagttgc ctgcgaaaca tgcaccanaa ccaacttggc catggtcttc ggagaaatca 300  
cganca 306

<210> 2174  
<211> 283  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 2174

nnncanangc acgcgtacgt aagctcggaa ttcggctcga gcggctcgag accactctct 60  
ctgctcttct tctacctttc aagtttttaa agtattaaga tggcagagac attcctatct 120  
accttcagag tcagtgaacg agggacaccc tgacaagctc tgcgaccaa tctccgatgc 180  
tgtcctcgac gcttgccttg ancaggaccc agacagcaag gttgcctgcg aaacatgcac 240  
caagaccaac ttggtcatgg tcttcggaga gatcaccacc aag 283

<210> 2175

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2175

nngtcgcctg cacgcgtacg tnagctcgga attcggctcg aggttactgt ctgttcaagc 60  
taccatctct ctctctcttn cttagtgcct ccttgnccag aagttaaaat ggcccaagaa 120  
actttcctat tcacatctga atcagtgaac gangggcacc tgacaagctc tgtgaccaga 180  
nctccgatgc tgtgctcgat gcatgcttgg agcaggacct gacagcaagg ttgcctgtga 240  
aacctgcacc aagaccaaca tggatgatgg tttcggagag atcanaacca agggccacng 300  
tgannaataa ganatgtgcn t 321

<210> 2176

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2176

aagcnccact caaccaccac accactctct ctgntctnct tctacctttc aagtttttaa 60  
agtattaaga tggcanagac attcctatctt acctcagagt cagtgaacga nggacaccct 120  
gacaagctct gcgaccaa atnccgatgct gtcctcgacg cttgccttga acaggaccca 180  
gacagcaagg ttgctgcgga aacatgcacc agaccacttg gtcatggtct tngaganatc 240  
accaccaagg ccacgttgac tacgaganga tcgtgcgtga cacctgcaga acatcggtt 300  
cggtt 304

<210> 2177  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2177

cacgcgtacg taagctcgga attcggctcg aggcagactt ancaacagca caaagcgggt 60  
 tactgtcngt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120  
 aaaatggcnc aagaaacttt cntattcaca tctgaatcag ngaacgaggg gcaccctgac 180  
 aagctctgtg accagatctc cgatgctgtg ctcgntgcat gcttggagca ggaccctgan 240  
 agcaagggtg cctgtgaaac ctggcaccan gaccaacatg gtgatggttt tcggaga 297

<210> 2178  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2178

gtacangcac gcgtacgtaa gctcgggaatt cggctcgagg cagacttaac aacagcacaa 60  
 agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120  
 agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
 ccctgacagc aaggttgcct gtgaaacctg caccaagcca acatgggtgat ggttttcgga 300  
 gagatcacia 310

<210> 2179  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2179

cgcgtacgtn agctcggaat tcggctcgag cttacaaca gcacaaagcg ggttactgtc 60  
 tgttcaagct accatctctc tctctctttc ttagtgctc cttgccagaa gttaaaatgg 120  
 cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctct 180

gtgaccagat ctccgatgct gtgctcgatg catgcttggg gcaggaccct gacagcaagg 240  
 ttgcctgtga aacctgcacc aagaccaaca tgggtgatg 278

<210> 2180  
 <211> 281  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2180

cgcattgcacg cgtacgtaag ctccggaattc ggctcgagca acagcnaaaa gcgggttact 60  
 gtctgtttcaa gctaccatct ctctctctct ttcttagtgc ctctttgcca gaagttaaaa 120  
 tggcccaaga aactttccta ttcacatctg aatcagtga cgaggggcac cctgacaagc 180  
 tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca 240  
 aggttgcttg tgaacctgc accaagacca acatggtgat g 281

<210> 2181  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2181

gnnnangcac gcgtacgtna gctcgggaatt cggctcgagg gccaggcaag ccccaactcaa 60  
 ccaccacacc tctcctcgnn cacgctgacc cctntctgct cttctttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180  
 accctgacaa gctctgcgac caaatctccg atgcnctcct cgacgcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgogaaacat gcaccanaac caacttggtc atggtcttcg 300  
 gagaa 305

<210> 2182  
 <211> 277  
 <212> DNA  
 <213> Glycine max  
 <400> 2182

gtcgcattgca cgcgtacgta agctcgggaat tcggctcgag cacaagcgg gtcactgtct 60

gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagaag ttaaaatggc 120  
ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg acaagctctg 180  
tgaccagatc tccgatgctg tgctcgatgc atgcttggag caggaccctg acagcaaggt 240  
tgctgtgaa acctgcacca agaccaacat ggtgatg 277

<210> 2183  
<211> 187  
<212> DNA  
<213> Glycine max

<400> 2183

tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
atgcttggag caggaccctg acagcaaggt tgctgtgaa acctgcacca agaccaacat 180  
ggtgatg 187

<210> 2184  
<211> 282  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2184

tcgcangcac gcgtacgtaa gctcggaatt cngctcgagc aacagcacia agcgggttac 60  
tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc agaagttaaa 120  
atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca cctgacaag 180  
ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga cctgacagc 240  
aaggttgctt gtgaaacctg caccaagacc aacatgggtga tg 282

<210> 2185  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2185

gtcgcangca cgcgtacgta agctcggnat tcggctcgan ctcgagccga attcgggctc 60

gantatacaa cagcacaaag cgggactact gtctgttcaa gactaccatc tctntctctc 120  
 tttcttagtg cctccttgcc agaagttaaa atggcccaan aaactttcct attcacatct 180  
 gaatcngtga acgaggggca ccctgacaag ctctgtgacc agatctccga tgctgtgctc 240  
 gatgcatgct tggagcagga ccctgacagc aagggtgcct gtgaaacctg caccaagacc 300  
 aacatggtga tggtt 315

<210> 2186  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2186

anacgcangc acgcgtacgt aagctcggaa ttcngctcga gggcaagccc cactcaacca 60  
 ccacacctct cctcgttcac gctacccctt tctgctcttc ttctaccttt caagttttaa 120  
 aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg agggacaccc 180  
 tgacaagctc tgcgaccaa tctccgatgc tgcctcgcac gcttgccctcg agcaggaccc 240  
 agacagcaaa gttgcctgcg aaacatgnac caaaaccaac ttggtcatgg tcttcggaga 300  
 aat 303

<210> 2187  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2187

acgtcgcang cacgcgtacg taagctcggga attcngctcg aggccccact caaccaccac 60  
 accnctcctc gttcacgcta cccctttctg ctcttcttct acctttcaag ttttaaaagt 120  
 ataaagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg acaccctgac 180  
 aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagca ggacccagac 240  
 agcaaagttg cctgcgaaac atgcacaaaa accaacttgg tcatggtctt cggagaa 297

<210> 2188  
 <211> 276

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2188

cgcntgcacg cgtacgtnag ctcggaattc ggctcgaggc acaaagcggg ttactgtctg 60  
ttcaagctac catctctctc tctctttctt agtgccctct tgccagaagt taaaatggcc 120  
caagaaactt tcctattcac atctgancca gtgaacgagg ggcaccctga caagctctgt 180  
gaccagatct ccgatgctgt gctcgatgca tgcttggagc aggaccctga cagcaagggt 240  
gcctgtgaaa cctgcaccaa gaccaacatg gtgatg 276

<210> 2189  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2189

ngtcgcangc acgcgtacgt aagctcggga attcngctcg aggcaagccc cactcaacca 60  
ccacacctct cctcggtcac gctacccctt tctgctcttc ttctaccttt caagttttta 120  
aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg agggacaccc 180  
tgacaagctc tgcgaccaa tctccgatgc tgtcctcgac gcttgccctcg agcaggaccc 240  
agacagcaaa gttgcctgcg aaacatgcac caaaaccaac ttggtcatgg tcttcggaga 300

<210> 2190  
<211> 283  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2190

gcntangtac gcnnacgtaa gctcgggaatt cggctcgagc caccacacct ctccctcggtc 60  
acgctacccc tttcngctct tcttctacct ttcaagtttt aaaagtataa agatggcaga 120  
gacattccta tttacctcag agtcggtgaa cgaggacac cctgacaagc tctgcgacca 180  
aatctccgat gctgtcctcg acgcttgctt cgagcaggac ccagacagca aagttgcctg 240  
cgaaacatgc accaaaacca acttggtcat ggtcttcgga gaa 283



<210> 2191  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2191

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tcgtcgcang cacgcgtacg taagctcggga attcggctcg agaggcaagc cccactcaac 60
caccacacct ctctcgttc acgctacccc tttctgctct tcttctacct ttcaagtttt 120
aaaagtataa agatggcaga gacattccta tttacctcag agtcggtgaa cgagggacac 180
cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt cgagcaggac 240
ccagacagca aagttgcctg cgaaacatgc accaaaacca acttggtcat ggtcttcgga 300
gaa 303
```

<210> 2192  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2192

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tntcnncna aagtcgcatg cacgcntacg taagctcggg aattcggctc gagggccagg 60
caagccccac tcaaccacca cacctctcct cgttcacgct acccctttct ggctcttctt 120
ctacctttca agttttaaaa gtataaagat ggcagagaca ttctatttta cctcagagtc 180
ggtgaacgag ggacaccctg acaagctctg cgaccaaata tccgatgctg tcctcgacgc 240
ttgcctcgag caggacccag acagcaaagt tgctcgcaa acatgcacca aaaccaactt 300
ggtcatggtc ttcggagaaa 320
```

<210> 2193  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2193

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agttnngcac gcgtagctaa gctcggaatt cggctcgaga ggcaagcccc actcaaccac 60
cacacctctc ctcgttcacg ctaccctttt ctgctcttct tctacctttc aagttttaaa 120
```

agtataaaga tggcagagac attcctatattt acctcagagt cggatgaacga gggacaccct 180  
 gacaagctct gcgaccaaatt ctccgatgct gtcctcgacg cttgcctcga gcaggaccca 240  
 gacagcaaag ttgcctgcga aacatgcacc aaaaccaact tggatcatggt cttcggagaa 300  
 a 301

<210> 2194  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 2194

gcatgcacgc gtacgtaagc tcggaattcg gctcgagcca agccccactc aaccaccaca 60  
 ccactctctc tgctcttctt ctacctttca agtttttaaa gtattaagat ggcagagaca 120  
 ttctatttta cctcagagtc agtgaacgag ggacaccctg acaagctctg cgaccaaattc 180  
 tccgatgctg tcctcgacgc ttgccttgaa caggaccagc acagcaaggt tgctgcgaa 240  
 acatgcacca agaccaactt ggtcatgggtc tcggagagat cacc 284

<210> 2195  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2195

ncacgtcgca ngcacgcnta cgtaagctcg gaattcggct cgagcaacag cacaagcgg 60  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagaag 120  
 ttaaaatggc ccaaganact ttctatttca catctgaatc agtgaacgag gggcaccctg 180  
 acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttggag caggaccctg 240  
 acagcaaggt tgctgtgaa acctgcacca agaccaacat ggtgatgg 288

<210> 2196  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2196

cgcnttacgc gtacgtaagc tcggaattcg gctcgaggcc atttgggagt taggttctgc 60  
acgctctgct tccagcgagt gttctttctt cgtttcaaca ccttaatttg cacacgctgc 120  
ttcttcngct tgagaaatgg cacaaaaacc tttctattca catctgaatc tgtaaacgan 180  
ggtcaccccg acaagctgtg cgaccagatc tctgatgcag tgctcgatgc gtgccttgaa 240  
caggaccctg acagcaangt tgcctgtgag acatgcacca ngaccaacat gg 292

<210> 2197  
<211> 316  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2197

ctcngctcgc ntacgtnanc tcggaattcg gctcgagnna tttgaggcca ggcaagcncc 60  
actcaaccac cacacctctc ctcgttcacg ctaccctttt ctgctcttct tctacctttc 120  
aagttttaaa agtataaaga tggcaganac attcctatth acctcagagt cgggtgaacga 180  
gggacaccct gacaagctct gcgaccaaht ctccgatgct gtcctcgacg cttgcntcga 240  
gcaggaccca gacagcaaag ttgcctgcna nacatgcacc aaaaccaact tgggtcatggt 300  
cttcggagaa atcacg 316

<210> 2198  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2198

cgcatgcagc gtacgtnagc tcggaattcg gctcgaggng ccaggcaagc cccactcaac 60  
caccacacct ctctcgttcc acgtacccc tttctgctct tcnctacc tttcaagttt 120  
taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 180  
ccctgacaag ctctgcgacc aaatctccga tgctgtctc gacgcttgcc tcgagcagga 240  
cccagacagc aaagttgcct gcgaaacatg caccaanacc aacttggtea tggctctcgg 300  
agaaa 305

<210> 2199  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2199

ngtcgcangc acgcgtacgt aanctcggaa ttcggctcga gtttgggagt taggttctgc 60  
 acgctctgct tccagcgagt gttctttctt cgtttcaaca ccttaatttg cacacgctgc 120  
 ttcttcagct tgagaaatgg cacaagaaac ctttctattc anatctgaat ctgtaaacga 180  
 gggtcacccc gacaagctgt gngaccagat ctctgatgca gtgcccgatg cgtgccttga 240  
 acaggncctt gacancaagg ttgcctgtga gacatgnacc aagaccaana tggatcatgtt 300  
 t 301

<210> 2200  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2200

gtcgcangca cgcgtacgta agctcggaa ttcggctcgag gacttaacaa cagcacaaaag 60  
 cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
 aagttaaaat ggccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
 ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcattgctt gagcaggacc 240  
 ctgacagcaa ggttgctgtg gaaacctgca ccaagaccna catggtgat 289

<210> 2201  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2201

gtcgcattga cgcgtacgta agctcggaa tnnctcgag ggccaggcaa gcccactca 60  
 accaccacac ctctctctgt tcacgtacc cttttctggc tcttcttcta cttttcaagt 120  
 tttaaaagta taaagatggc agagacattc ctatttacct cagatcggt gaacgaggga 180

caccctgaca agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg cctcgagcag 240  
gaccagaca gcaaagttgc ctgcgaaaca tgcaccanaa ccaacttggt catggtcttc 300  
ggagaaatc 309

<210> 2202  
<211> 250  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2202

gcagacttaa caacagcaca aagcgggta ctgtctgttc aagctaccat ctctctctct 60  
nctttcttag tgctccttg ccagaagta aaatggccca agaaactttc ctattcacat 120  
ctgaatcagt gaacgagggg caccctgaca agctctgtga ccagatctcc gatgctgtgc 180  
tcgatgcatg cttggagcag gaccctgaca gcaagggtgc ctgtgaaacc tgcaccaaga 240  
ccaacatggt 250

<210> 2203  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2203

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag gcccactca accaccacac 60  
ntctcctcgt tcacgctacc cttttctgct cttcttctac ctttcaagtt ncaaaagtat 120  
aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac accctgacaa 180  
gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg acccagacag 240  
caaagttgcc tgcgaaacat gcacaaaaac caacttggtc atggtcttcg gagag 295

<210> 2204  
<211> 272  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2204

gncgcngcac gcgtacgtna gctcgggnatt cggctcgagg gcccactca accaccacac 60

cactctctct gctctttctt tacctttcaa gtttttaaag tattaagatg gcagagacat 120  
 tcctatttac ctacagagtc gtgaacgagg gacaccctga caagctctgc gaccaaactct 180  
 ccgatgctgt cctcgacgct tgccttgaac aggaccaga cagcaagggt gcctgcgaaa 240  
 catgcaccaa gaccaacttg gtcatgggtc tc 272

<210> 2205  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2205

cgtcgcangc acgcgtacgt aagctcgga ttcggctcga gccaaagcccc actcaaccac 60  
 cacaccactc tctctgctct tcttctacct ttcaagtttt taaagtatta agatggcaga 120  
 gacattccta tttacctcag agtcagtga cgaggacac cctgacaagc tctgcgacca 180  
 aatctccgat gctgtcctcg acgcttgctt tgaacaggac ccagacagca aggttgcttg 240  
 cgaaacatgc accaagacca acttggtcat ggtctt 276

<210> 2206  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2206

ntcntatgca cgcgtacgta agctcggaat tcggctcgag ggccaggcaa gcccactca 60  
 accaccacac ctctcctcgt tcaagctacc cctttctgct cttcttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgaggagc 180  
 accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgcgaaacat gcacaaaaac caacttggtc atggtcttcg 300  
 gagaaat 307

<210> 2207  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        2207

```
tgcgancac gcgtacgtna gctcggaatt cggctcgagg ccatttggn agttaggttc   60
tgcacgctct gcttcacgc agtggtcttt ctctgtttca acaccttaat ttgcacacgc  120
tgctttctca gcttgagaaa tggcacaaga aacctttcta ttcacatctg aatctgtaaa  180
cgaggggtcac cccgacaagc tgtgcgacca gatctctgat gcagtgtctg atgcgtgcct  240
gaacaggacc ctgacagcaa ggttgccctgt gagacatgca ccaagaccaa catggtcagg  300
tcttgagag a                                                         311
```

<210>        2208  
 <211>        310  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2208

```
nnncgcatgc acgcgtacgt aagctcggaa ttcggctcga ggactgttat gtttaaattg   60
tagtcatggg ggtgtttttg gctgtgaatt tgctcatatg tgctaattat gtgttcttgt  120
ttgatgttac tctacagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc  180
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctncgatg  240
catgcttggg gcaggaccct gacagcaang ttgcctgtga aacctgcacc aagaccaaca  300
tggtgatggt                                                         310
```

<210>        2209  
 <211>        338  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2209

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tgcgatgcac gcgtacgtaa gctcggaatt cnnctcgagg caagccccac tcaaccacca   60
cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag  120
tataaagatg gcagagacat tcctatttac ctcagagtcg gtgaacgagg gacaccctga  180
caagctctgc gaccaaactc cgatgctgtc ctcgacgctt gcctcgagca ggaccagac  240
```

agcaaagttg cctgcgaaac atgcacaaaa accaacttgg tcatgggtctt cggagaaaatc 300  
acgaccaggc caagttgatt acgagaagta gtgcgtga 338

<210> 2210  
<211> 288  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2210

antcncangc acgcgtacgt aagctcggaa ttcggctcga gaacagcaca aagcgggtta 60  
ctgtctgttc aagctacat ctctctctct ctttcttagt gcctccttgc cagaagttaa 120  
aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc accctgacaa 180  
gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttgganccag gaccctgaca 240  
gcaaggttgc ctgtgaaacc tgcaccaaga ccaacatggt gatggttt 288

<210> 2211  
<211> 311  
<212> DNA  
<213> Glycine max  
  
<400> 2211

gtcgcacgca cgcgtacgta agctcggaa ttcggctcga ggccaggcaa gcccactca 60  
accaccacac ctctcctcgt tcacgctacc ctttctgctc ttcttctacc tttcaagttt 120  
taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 180  
cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt cgagcaggac 240  
ccagacagca aagttgcttg cgaaacatgc accaaaacca acttggtcat ggtcttcgga 300  
gaaatcacga c 311

<210> 2212  
<211> 328  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2212

angtctcang cagcgtacg taagctcggaa attcagctcg agcngctcga gcacacctct 60



cctcggttcac gctacccctt tctgctctnc ttctaccttt caagttttna angntntaaag 120  
gtggcagaga cattcctatt tacctcagag tcgntgaacg agggacaccc tgnnaagctc 180  
tgcgacaaaa tctccgatgc tgtcctcgac gcttgctcgc agcaggaccc agacagnaaa 240  
gttgcntgcg aaacatncac caaaaccaat tggatcatggt cttcggagaa atcacgacca 300  
aggccaacgt tgatacgaga agatatgc 328

<210> 2213  
<211> 309  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2213

acgtcgcang cacgcgtacg taagctcggg attcggctcg agcaagcccc actcaaccac 60  
cacacctctc ctcggttcacg ctaccccttt ctgctcttct tctacctttc aagttttaaa 120  
agtataaaga tggcagagac attcctatct acctcagagt cgggtgaacga gggacaccct 180  
gacaagctct gcgaccaaatt ctccgatgct gtctcgcacg cttgcctcga gcaggaccca 240  
gacagcaaag ttgcctgcga aacatgcacc aaaaccaatt ggtcatgggtc ttcggagaaa 300  
tcacgacca 309

<210> 2214  
<211> 299  
<212> DNA  
<213> Glycine max  
<400> 2214

cgtcgcacgc acgcgtacgt aagctcggaa ttcggctcga gcaaattgtg aaggagaatt 60  
tcgacttcag acctggaatg atcaccatta acttggacct taagaggggt ggtcataggt 120  
tcctcaagac agctgcttat ggacactttg gaagggatga tgcagacttc acctgggaag 180  
ttgtgaagcc actcaagtca gagaagcctc aagcttaaga gtgttggtta gttaataact 240  
cccttcagtg gatgtcttgc tgggtgtgga tgaataattt gcgtgtttca tgactacta 299

<210> 2215  
<211> 297  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        2215

```
ngtcgcangc acgcgtacgt aagctcggaa ttcggctcga ggccaggcaa gccccactca   60
accaccacac ctctcctcgt tcacgctacc cctttctgct cttcttctac ctttcaagtt  120
ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac  180
accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg  240
accagacag  caaagttgcc tgcgaaacat gcacaaaac caacttggtc atggtct   297
```

<210>        2216  
<211>        298  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        2216

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gtcgcangca cgcgtacgtn agctcggaat tcggctcggg ggccaggcaa gccccactca   60
accaccacac ctctcctcgt tcacgctacc cctttctgct cttcttctac ctttcaagtt  120
ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac  180
accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg  240
accagacag  caaagttgcc tgcgaaacat gcaccannac caacttggtc atggtctt   298
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<210>        2217  
<211>        284  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        2217

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tcgcangcac gcgtacgtaa gctcgggaatt cggtcgcgac ttaacaacag cacaagcg   60
gttactgtct gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagaag  120
ttaaaatggc ccaagaaact ttcctattca catctgaatc agtgaacgag gggcaccctg  180
acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttgag caggaccctg  240
acagcaaggt tgctgtgaa acctgcacca agaccaacat ggtg   284
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<210>        2218

<211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2218

ttgcatgcan gcgtacgtaa nctcgggaat tcggctcgag nggagttagg ttctgcacgc 60  
 tctncttcca gcgagtgttc tttcntcggt tcaacacctt aatttgchang acgctgcttn 120  
 tnaaganttgc agaaatggca caagaaacct ttctattcac atctgaatct ntaaacgagg 180  
 gtcaccccgga naagctgtgc gancagatct ctatgcaggt gctcgatgcg tgccttgaac 240  
 aggacnctga cagcaagggt gcctgtgaga catgcaccaa gaccaacatg gcatggtc 298

<210> 2219  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2219

gtngnnggcn nngnacggta cgtgagctcg gaattcggct cgagcaggca agccccactc 60  
 aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt 120  
 tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggg gaacgaggga 180  
 caccctgaca agctctgcga ccaaattctc gatgctgtcc tcgacgcttg cctcgagcag 240  
 gaccagaca gcaaagttgc ctgcgaaaca tgcagcaaaa ccaacttggt catggtcttc 300  
 ggn 303

<210> 2220  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2220

ttacatgcac acgtacgtaa gctcgggaatt cngctcgaga ggcaagcncc actcaaccac 60  
 cacacctctc ctggttcacg ctaccccttt ctgctcttct tctacctttc nagttttaaa 120  
 agtataaaga tggcagagac attcctatctt acctcagagt cggatgaacga gggacaccct 180  
 gacaagctct gcgaccaaatt ctccgatgct gtcctcgacg cttgcctcga gcaggaccca 240

gatagcaaag ttgcctgcna aacatgcacc aaaaccaact tggatcatggt cttcggagaa 300  
 a 301

<210> 2221  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2221

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga ggggccaggc aagccccact 60  
 caaccaccac acctctctctc gttcacgcta cccctttctg ctcttcttct acctttcaag 120  
 ttttaaaagt ataaagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg 180  
 acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagca 240  
 ggacccagac agcaaagttg cctgcgaaac atgcaccaga accaacttgg tcatggtctt 300  
 cgga 304

<210> 2222  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2222

tancgcatgc acgcngntaa nntnnnaatc ggnattcggc tcgagtttga ggccaggcaa 60  
 gccccactca accaccacac ctctcctcgt tcacgctacc cttttctgct cttcttctac 120  
 ctttcaagtt ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg 180  
 aacgagggac accctgacaa gctctgcgat caaatctccg atgctgtcct cgacgcttgc 240  
 ctcgagcagg acccagacag caaagttgcc tgcgaaacat gcacaaaaac caacttggtc 300  
 atggtcttctg g 311

<210> 2223  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 2223

annctaattgc acgcgtacgt aagctcggaa ttcggctcga gaacaacagc acaaagcggg 60

ttactgtctg ttcaagctac catctctctc tctctttctt agtgcctcct tgccagaagt 120

taaaatggcc caagaaactt tcctattcac atctgaatca gtgaacgagg ggcaccctga 180

caagctctgt gaccagatct ccgatgctgt gctcgatgca tgcttgagc aggaccctga 240

cagcaagggtt gcctgtgaaa cctgcaccaa gaccaacatg gtga 284

<210> 2224

<211> 299

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2224

nnnnaannnn cgcattgcacg cgtacgtaag ctcggaattc ggctcgaggc agacttaaca 60

acagcacaata gcgggttact gtctgttcaa gctaccatct ctctctctct ttcttagtgc 120

ctccttgcca gaagttaaaa tggcccaaga aactttccta ttcacatctg aatcagtga 180

cgagggggcac cctgacaagc tctgtgacca gatctccgat gctgtgctcg atgcatgctt 240

ggagcaggac cctgacagca aggttgcttg tgaaacctgc accaagacca acatggtga 299

<210> 2225

<211> 324

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2225

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gatttgaggc caggcaagcc 60

ccactcaacc accacacntc tncncgttca cgctaccctt ttctgnctct tcttgctncc 120

tttcaagttt taaaagtata aagatggcag agacattcct atttacctca gagtcggtga 180

acgaggggaca ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc 240

tcgagcagga ccagacagc aaagttgcct gcganacatg caccaaaacc aacttggtca 300

tggtctngga gaaatcacga ccaa 324

<210> 2226

<211> 304  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2226  
  
 ntgcgancga cgcgtacgta agctcggaat tcggctcgag ggccaggcaa gcccactca 60  
 acnaccacac ctctcctcgt tcacgctacc cttttctgct cttcttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180  
 accctgacaa gctctgcgac caaatctccg atgctgtcct cgncgcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgcgaaacat gcaccanaac caacttggtc atggtcttcg 300  
 gaga 304

<210> 2227  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2227  
  
 gtcgcatgca cgcgtacgta agctcggaat tcggctcgag caggcaagcc ccaactcaacc 60  
 accacacctc tctctgttca cgctaccctt ttctgtcttt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc gagcaggacc 240  
 cagacagcaa agttgcctgc gaaacatgca gcaaaaccaa cttggtcattg gtcttcggag 300

<210> 2228  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2228  
  
 ngtcgcangc acgcgtacgt aagctcgga ttcggctcga gggccaggca agccccactc 60  
 aaccaccaca cctctcctcg ttcacgtac ccctttctgc tttttttcta cttttcaagt 120  
 tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggg 180  
 caccctgaca agctctcgca ccaaatctcc gatgtgtcc tcgacgcttg cctcgagcag 240

gacccagaca gcnaagttgc ctgcgaaaca tgcacaaaaa ccaacttggt catggtcttc 300  
 gg 302

<210> 2229  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2229

gtcgcangca cgcgtacgta agctcggaat tcggctcgag caggcaagcc ccaactcaacc 60  
 accacacctc tctctgttca cgctaccctt ttctgtcttt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgcctc gagcaggacc 240  
 cagacagcaa agttgcctgc gaaacatgca ncaaaaccaa cttggtcatg gtcttcgg 298

<210> 2230  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2230

ttanagtcgc angcacgcgt acgtaagctc ggaattcnnc tcgagncaag cccactcaa 60  
 ccaccacacc tctcctcggt cacgtacccc ctttctgtct ttctttctacc tttcaagttt 120  
 taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga 240  
 cccagacagc aaagttgcct gcgaaacatg caccaaaacc aacttggtca tgggtcttc 298

<210> 2231  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2231

tgatttgagg ccaggcaagc ccngctcaac caccacacnt ctctcgttc acgtacccc 60  
 tttctnctct tctttctacct ttcangtttt aaaagtataa agatggcaga gacattccta 120

tttacctcag agtcggtgaa cgagggacac cctgacaagc tctgcgacca aatctccgat 180  
gctgtcctcg acgcttgcct cgagcaggac ccagacagca aagttgcctg cgaaacatgc 240  
accaaaacca acttgggtcat ggtcttcgg 269

<210> 2232  
<211> 290  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2232

ncaattaana gtcgcangca cgcgtacgta agctcggaat tcggctcgag gttaggttct 60  
gcacgctctg cttccagcga gtgttctttc ttcgtttcaa caccttaatt tgcacacgct 120  
gcttcttcag cttgagaaat ggacacaagaa acccttctat tcacatctga atctgtaaac 180  
gagggtcacc ccgacaagct gtgcgaccag atctctgatg cagtgcctga tgcgtgcctt 240  
gaacaggacc ctgacagcaa ggttgcctgt gagacatgca ccaagaccaa 290

<210> 2233  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2233

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ggccaggcaa gcccactca 60  
accaccacac ctctcctcgt tcacgctacc cctttctgct cttcttctac ctttcaagtt 120  
ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180  
accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg 240  
accagacag caaagttgcc tgcgaaacat gcaccanaac caacttggtc atggtcttcg 300  
gagaaa 306

<210> 2234  
<211> 311  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations



<400> 2234

tnangnacgc gtacgtaagc tcggaattcg gctcgagcng ctcgaggcaa gccccactca 60  
accaccacac acgctcctcg tncacgctac ccctttctgg ctcttcttct accnttcaag 120  
ttttaaaagt ataaagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg 180  
acaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagca 240  
ggaccagaca gcaaagttgc ctgcgaaaca tgcacaaaa ccaacttggc catggctctc 300  
ggagaaatca c 311

<210> 2235

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2235

natcgcatgc acgcgtacgt nagctcgga ttcggctcga gcaacagcac aaagcggggtt 60  
actgtctgtt caagctacca tctctctctc tctttcttag tgcttccttg ccagaagtta 120  
aaatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg caccctganc 180  
aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttggagca ggaccctgac 240  
agcaagggtg cctgtgaaac ctgcaccaag accaacaatgg tgatggttt 289

<210> 2236

<211> 260

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2236

agcagactta acaacagcac aaagcggggtt actgtctgtt caagctacca nnnnnnnnnn 60  
nnnnnnntag tgcttccttg ccagaagtta aaatggccca agaaactttc ctattcacat 120  
ctgaatcagt gaacgagggg caccctncac aagctctgtg accagatctc cgatgctgtg 180  
ctcgatgcat gcttggagca ggaccctgac agcaagggtg cctgtgaaac ctgcaccaag 240  
accaacaatgg tgatggttt 260

<210> 2237

<211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2237

ntcanntacg cgtangtanc actgcgtacn tnagctcgga attcggctcg agcagcacaa 60  
 agcgggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120  
 agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgtacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
 accctgacag caaggttgcc tgtgaaacct gcaccaagac caacatgggtg atgggtttt 298

<210> 2238  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2238

tcgcngaacg ngtagcgaag ctcggaattc ggctcgangn catttgggag ttaggtttina 60  
 acgctcngcg tnnagnagat gatntttctt cgtntcanca cntnaaattg cancacgctg 120  
 cttcttcngc ttgagaaatg gcacaagaaa cctttctatt cacatctgaa tctgtaaacg 180  
 anggtcaccc cgacaagctg tgtgaccaga tctctgatgc antgctcgat gcgngccttg 240  
 aacaggaccc tgacagcaag ttgcctgtga gacatgcacc atgaccaaca tggtcaggtc 300  
 n 301

<210> 2239  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2239

acgtcgcang cacgcgtacg taagctcgga attcngctcg aggcaagccc cactcaacca 60  
 ccacacctct cctcggttac gctaccctt tctgctactt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgctc gagcaggacc 240

cagacagcaa agttgcctgc gaacatgcac caaaaccaac ttggatcatgg tcttcggaga 300  
aatcacgac 309

<210> 2240  
<211> 293  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2240

ngtcgcangc acgcgtacgt aagctcggaa ttcggctcga gttaacaaca gcacaaagcg 60  
ggttactgtc tgttcangct accatctctc tctctctttc ttagtgctc cttgccagaa 120  
gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggaccctg 180  
acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgcttgag caggncctg 240  
acagcaaggt tgctgtgaa acctgcacca agaccaacat ggtgatggtt ttc 293

<210> 2241  
<211> 279  
<212> DNA  
<213> Glycine max  
  
<400> 2241

acgcgtacgt aagctcggaa ttcggctcga gctcgagccg cagcaciaag cgggttactg 60  
tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag aagttaaaat 120  
ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc ctgacaagct 180  
ctgtgaccag atctccgatg ctgtgctcga tgcagtcttg gagcaggacc ctgacagcaa 240  
ggttgctgtg gaacctgcac caagaccaac atggtgatg 279

<210> 2242  
<211> 181  
<212> DNA  
<213> Glycine max  
  
<400> 2242

tagtgctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120

atgcttggag caggaccctg acagcaaggt tgctgtgaa acctgcacca agaccaacat 180  
g 181

<210> 2243  
<211> 289  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2243

acgtcgcang cagcgtacg taagctcgga attcggctcg aggcagactt aacaacagca 60  
caaagcgggt tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt 120  
gccagaagtt aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg 180  
gcaccctgac aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttggagca 240  
ggaccctgac agcaaggttg cctgtgaaac ctgcaccaag accaacaatg 289

<210> 2244  
<211> 287  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2244

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aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc 120  
cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc 180  
accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg 240  
accctgacag caaggttgcc tgtgaaacct gcaccaagac caacatg 287

<210> 2245  
<211> 310  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2245

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caaccancac acatctnctc gttcaagcta cccctttgtn cncctncttct aantttcaag 120

ttttaaaagt atacagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg 180  
 acaccntgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcntcgagca 240  
 ggacccagac agcaangttg cctgcgaaac atgcaccnga accaacttgg tcatggtctt 300  
 cggagaaatc 310

<210> 2246  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2246

ngtcgcangc acgcgtacgt nagctcgga ttcggctcga gccancacac ctctcctcgt 60  
 tcacgctacc cttttctgct cttcttctac ctttcaagtt tnaaangtnt aaagatggca 120  
 gagacatncc tatttacctc agagtcggtg aacgagggac acccngacaa gctctgcgac 180  
 caaanctccg atgcngtctt cgacgcttgc ctcgagcagg acccagacag caaagntgcc 240  
 tgcgaaacan gcaccaaaac caacttggtc atggtcttcg gaga 284

<210> 2247  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2247

ntntcgcang cagcgtacg taagctcgga attcggctcg aggccaggca agccccactc 60  
 aaccaccaca ctggctcctc gttnacgcta cccctttctn cctcttcttc tacctttcaa 120  
 gttttaaaag tataaagatg gcagagacat tcctatttac ctcagagtcg gtgaacgagg 180  
 gacaccctga caagctctgc gaccaaattc ccgatgctgt cctcgacgct tgccctcgagc 240  
 aggacccaga cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg gtcatggtc 299

<210> 2248  
 <211> 182  
 <212> DNA  
 <213> Glycine max  
 <400> 2248

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agtgaacgag gggcacccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc	120
atgcttggag caggaccctg acagcaaggt tgcctgtgaa acctgcacca agaccaacat	180
gg	182

<210>	2249
<211>	313
<212>	DNA
<213>	Glycine max
<223>	unsure at all n locations
<400>	2249

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anccnggtta cttnctgtnc aagctancca tctctctctc tctttcttag tgccctccttg	120
ccagaagtta aaatggccca agaaactttc ctanncacat ctgaatcagt gaancgaggg	180
gcacctgaca agctctgtga ccagatctcc gatgctgtgc tcgatgcncg nttggagcag	240
gaccctgaca gcaaggttgc ctgtgaaacc ngcaccaaga ccaacatggg gatgggttttc	300
ggaganntca caa	313

<210>	2250
<211>	289
<212>	DNA
<213>	Glycine max
<223>	unsure at all n locations
<400>	2250

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ctctcctcgt tcacgctacc cttttctgct cttcttctac ctttcaagtt ttaaaagtat	120
aaagatggca gagacattcc tatttacctc agagtcggtg aacgaggag accctgacaa	180
gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg acccagacag	240
caaagttgcc tgcgaaacat gcancaaac caacttggtc atggtcttc	289

<210>	2251
<211>	264
<212>	DNA
<213>	Glycine max

<223>        unsure at all n locations  
<400>        2251

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tacctcagag tcggtgaacg agggacaccc tgacaagctc tgcgaccaa tctccgatgc  180
tgtcctcgac gcttgccctcg agcaggaccc agacagcaaa gttgcctgcg aaacatgcac  240
caaaaccanc ttggtcatgg tctt                                     264

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<210>        2252  
<211>        315  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        2252

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gtcgcgatgca cgcgtacgta agctcggaat tcggctcgag gcaagcccca ctcaaccacc   60
acacctctcc tcgttcacgc tacccttttc tgctcttctt ctacctttca agtttttaaa  120
gtataaagat ggcagagaca ttctatttta cctcagagtc ggtgaacgag ggacaccctg  180
aaagctctgc gaccaaactc ccgatgctgt cctcgacgct tgccctcgagc aggaccaga  240
cagcaaagtt gcctgcgaaa catgcacnaa aaccaattgg tcatgggtctt cggagaaatc  300
acgaccaagg ccaag                                     315

```

<210>        2253  
<211>        191  
<212>        DNA  
<213>        Glycine max

<400>        2253

```

tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ttctatttca catctgaatc   60
agtgaacgag gggcaccctg acaagcttgt gaccagatct ccgatgctgt gctcgatgca  120
tgcttgagagc aggaccctga cagcaagggt gcctgtgaaa cctgcaccaa gaccaacatg  180
gtgatggttt t                                     191

```

<210>        2254  
<211>        304

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2254

gttgccangca cgcgtacgta agctcggaat tcggctcgag agcagactta acaacagcac 60  
 aaagcgggtt actgtctgtt caagctnnca nctctctctc tctttcttag tgcctccttg 120  
 ccagaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt gaacganggg 180  
 caccctgtgc aagctctgtg accagatctc cgatgctgtg ctcgatgcat gattggagca 240  
 ggaccctgac agcaagggtg nctgtgaaac ctgcaccaag ancaacatgg tgatggtttt 300  
 cgga 304

<210> 2255  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2255

tcgcatgcnc gcgtacgtna gctcgggnatt cggtcgcagc anaangcngg ttactgtctg 60  
 ttcaagctac catctctctc tctctttctt antgcctcct tgccagangt taaaatggcn 120  
 caagaanctt tcctattcac atctgaatnn gtgaacgagg ggcaccctga acaanctctg 180  
 tgancagatc tccgatgctg tgctcgnctg atncttgagg caggaccctg acagnaggt 240  
 tncctgtgna acntgcacca agnccancat ggngatgggt ttccggagann tcacaaccan 300  
 ggccaacgtg gactatg 317

<210> 2256  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2256

cngcacgcgt acgtaagctc ggaattcggc tcgagggaga ttggtgctgg tgaccaaggt 60  
 catatgttcg gctatgnnct gacgangntc ccgagctcat gcccntgagc catgtccttg 120  
 ccacgaagct cgggtgtcaag ctcanagagg ttcggaanaa cgggacatgc ccttggtgta 180



ganctgntgg caagaccnag gtcantgttg nnnactacaa tggcaagggn gccat 235

<210> 2257  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 2257

cgatgcacgc gtacgtaagc tcggaattcg gtcgagttt ggggagttag gttctgcacg 60  
 ctctgcttcc agcgagtgtt ctttcttcgt ttcaacaacc ttaatttgca cacgctgctt 120  
 cttcagcttg agaaatggca caagaaacct ttctattcac atctgaatct gtaaaccgagg 180  
 gtcaccccga caagctgtgc gaccagatct ctgatgcagt gtcgatgcg tgccttgaac 240  
 aggaccctga cagcaagttg cctgtgagac atgcaccaag accaactggg cagggtctttg 300  
 gagagatcac aaccagggc 319

<210> 2258  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 2258

gtcgcattgca cgcgtacgta agctcggaat tcggctcgag caggcaagcc ccaactcaacc 60  
 accacacctc tctcgttca cgctaccctt ttctgctctt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgctc gagcaggacc 240  
 cagacagcaa agttgcttgc gaaacatgca acaaaaccaa ttggatcatgg tcttcggaga 300  
 aatcac 306

<210> 2259  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2259

acgtcgcang cacgcgtacg taagctcgga attcggctcg agcttaacaa cagcaciaaag 60  
 cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120

aagttaaaat ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
 ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcagtcttg gagcaggacc 240  
 ctgacagcaa ggttgcctgt gaaacctgca accaagacca acatgggtgat ggnttncgga 300

<210> 2260  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2260

gtcgcacgca cgcgtacgta agctcggaat tnggctcgag ctcgagccgc aggaaagccc 60  
 cactcaacca ccacacctct cctcggtcac gctacccctt aactgcttct tcttctacct 120  
 ttcaagtttt aaaagtataa agatggcaga gacattccta tttacctcag agtcggtgaa 180  
 cgagggacac cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgcoct 240  
 cgagcaggac ccagacagca aagttgcctg cgaaacatgc accaaaacca cttgggtcatg 300  
 gtcttcggag aaatcagacc aaggccaagt 330

<210> 2261  
 <211> 180  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2261

tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ntctattca catctggatc 60  
 agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcnntgc 120  
 atgcttggag caggancctg acagcaaggt tgctgtgaa acctgcacca agaccaacat 180

<210> 2262  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <400> 2262

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag caagccccac tcaaccacca 60  
 cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag 120

tataaagatg gcagagacat tcctatTTTtac CTCagagTCg gtgaacgagg gacaccctga 180  
 caagctctgc gaccaaTct cCgatgctgt cctcgacgct Tgcctcgagc aggaccCaga 240  
 cagcaaagtt gCctgcgaaa catgcaccaa aaccaacttg gTcatg 286

<210> 2263  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2263

gtcgcangca cgcgtacgta agctcggaat tcggctcgag tttgaggcca ggcaagcccc 60  
 actcaaccac cacacTctc ctCgttcacg ctaccCcttt ctgctctTct tctacCtttc 120  
 aagTTTTaaa agtataaaga tggcagagac attCctatTT acctcagagt cggTgaacga 180  
 gggacaccct gacaagctct gcgaccaaT ctccgatgct gTcctcgacg cttgcctcga 240  
 gcaggaccca gacagcaaag ttgcctgcga aacatgcacc aaaaccnact tggTcatggt 300

<210> 2264  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2264

cgcangcacg cgtacgtaag ctCggaattc ggctcgagcg acttaacaac agcacaaagc 60  
 gggTtactgt ctgttcaagc taccatctct ctctctcttt cttagTgcct cnttgccaga 120  
 agtTaaaatg gCccaagaaa ctttCctatt cacatctgaa tcagtgaacg aggggcaccc 180  
 tgacaagctc tgtgaccaga tctccgatgc tgtgctcgnt gcatgcttgg agcaggaccc 240  
 tgacagcaag gttgcctgtg aaacctgcac caagaccaac atgtgatggt ttcggagagn 300  
 tcacaaccan gcaacgtgga ctatgagagg tt 332

<210> 2265  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 2265

tcacnggtac gtnagctcgg aattcggctc nagcttaaca acagcacaaa gcgggttact 60  
gtctgttcaa gctacatct ctctctctct ttcttagtgc ctccttgcca gaagttaaaa 120  
tggcccaaga aactttccta ttcacatctg aatcagtga cgagggggcac cctgacaagc 180  
tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca 240  
aggttgcttg tgaaacctgc accaagacca acat 274

<210> 2266

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2266

gcnnannagg nnagtcgcan gcacgcgtac gtaagctcgg aattcggctc gaggcagact 60  
taacaacagc acaaagcggg ttactgtctg ttcaagctac catctctctc tctctttctt 120  
agtgcctcct tgccagaagt taaaatggcc caagaaactt tcctattcac atctgaatca 180  
gtgaacgagg ggcaccctga caagctctgt gaccagatct ccgatgctgt gctcgatgca 240  
tgcttgagc aggaccctga cagcaagggt gcctgtgaaa cctgcaccaa gaccaacatn 300

<210> 2267

<211> 288

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2267

ngtcgcangc acgcgtacgt aagctcggaa ttcnctcga ggccccactc aaccaccaca 60  
cntctcctcg ttcacgctac ccctttctgc tcttcttcta cttttcaagt tttaaaagta 120  
taaagatggc agagacattc ctatttacct cagagtcggt gaacgaggga caccctgaca 180  
agctctgcga ccaaattctc gatgctgtcc tcgacgcttg cctcgagcag gaccagaca 240  
gnnaagttgc ctgcgaaaca tgcacaaaaa ccaacttggt catggtct 288

<210> 2268

<211> 291

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2268

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gttgccangca cgcgtacgta agctcgggaat tcggctcgag atttggagtt tggagcgact   60
naactaatca ttaatttgca ctgctgtttt cagcttcac accctttctt ttgcatcatt  120
tatatctctt gagaaaatggc acaagaaacc tntctattca catctgaatc tgtaaacgag  180
ggtcaccccg acangctgtg cgancagatc tctgatgcag tacttgatgc gtgccttgaa  240
caggaccctg acagcaaggt tgccngtgag acatgnacca agaccaacat g           291
```

<210> 2269

<211> 298

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2269

```
cacgcgtacg taagctcgga attcggctcg agncaaagga gtgatttgga gtttggagcg   60
actgaactaa tcattaattt gcaactcgctg tttcagcttc atcacccttc ttttgcacat  120
tttatatctc ttgagaaaatg gcacaagaaa cttttctatt cacatctgaa tctgtaaacg  180
agggtcaccc cgacangctg tncnaccaga tctctgatgc agtacttgat gcgtgccttg  240
aacnggaccc tggacagcaa ggttgccctgt gagacatgca ccaagaccaa catgggtct   298
```

<210> 2270

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2270

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gtcgcangca cgcgtacgta agctcgggaat tcggctcgag gcagacttaa caacagcaca   60
aagcgggtta ctgtctgttc aagctaccat ctntctcttc tctttcttag tgctccttg  120
ccagaagtta aaatggccca agaaaactttc ctattcacat ctgaatcagt gaacgagggg  180
caccctgaac aagctctgtg accagatctc cgatgctgtg ctcgatgcat gcttggagca  240
ggaccctgac agcaaggttg cctgtgaaac ctgcaccaag accaacaatgg tgatgg     296
```

<210> 2271  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2271  
  
 gtncatgca cgcgtacgta agctcggaat tcggctcgag gacttaacaa cagcacaaaag 60  
 cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
 aagttaaaat ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc 180  
 ctgacaagct ctgtgaccag atctccgatg ctgtgctcga tgcattgctt gagcaggacc 240  
 nncgacagca aggttgccctg tgaaacctgc accaagacca acatgggtg 288

<210> 2272  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2272  
  
 nagtcgcatg cacgcgtacg taagctcgga attcngctcg aggcaagccc cactcaacca 60  
 ccacacctct cctcgttcac gctaccctct tctgtctctt ttctaccttt caagttttaa 120  
 aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg agggacaccc 180  
 tgacaagctc tgcgacaaa tctccgatgc tgtcctcgac gcttgccctg agcaggaccc 240  
 agacagcaaa gttgcctgcg aaacatggca ccaaaaccaa cttgggtcatg gtcttcgga 299

<210> 2273  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2273  
  
 gcngcacgcg tacgtaagct cggaattcgg ctcgaggcca ggcaagcccc actcaaccac 60  
 cacacctctc ctcgttcacg ctaccctctt ctgtctctt tctacctttc aagtttttaa 120  
 agtataaaga tggcagagac attcctatct acctcagagt cgggtgaacga gggacaccct 180  
 gacaagctct gcgaccaaatt ctccgatgct gtctcgcagc cttgcctcga gcaggaccca 240

gacagcaaag ttgcctgcga aacatgcacc anaaaccaac ttggatcatgg tcttcggaga 300

<210> 2274  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2274

acgtcgcang cacgcgtacg taagctcgga attcggctcg agggagtttg gagcgactga 60  
 actaatcatt aatttgcact cgctgtttca gtttcacac ctttcttttg catcatttat 120  
 atctcttgag aaatggcaca agaaaccttt ctattcacat ctgaatcgta aacnagggtc 180  
 accccgacaa gctgtncnat cagatctctg atgcagtact tgatgcntgc cttgancagg 240  
 nccctgacag caaggttgcc tgtgagacnt gcaccaagac caacatggtc atggtct 297

<210> 2275  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2275

gcangcacgc gtacgtnagc tcggaattcn gctcgaggcc ccaactcaacc accacacctc 60  
 tcctcgttca cgctaccctt ttctgctctt cttctacctt tcaagtttta aaagtataaa 120  
 gatggcagag acattcctat ttacctcaga gtcgggtgaac gagggacacc ctgacaagct 180  
 ctgcgacnna atctccgatg ctgtcctcga cgcttgcttc gagcaggacc cagacagcaa 240  
 agttgcctgc gaaacatgca ccaaaaccaa ttggatcatgg tcttcggaga aatcac 296

<210> 2276  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2276

acgtcgcang cacgcgtacg tnagcnnccg aattcngctc gagcaggcaa gccccactca 60  
 accaccacac ctctcctcgt tcacgctacc ctttctgct cttcttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180

accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgcgaaacat gcacccaaaac caattggtca tggctcttcgg 300  
 agaaat 306

<210> 2277  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2277

tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagg gccaggcaag cccactcaa 60  
 ccaccacacn nctcctcggt cactgtaccc ctttctgctc ttcttctacc tttcaagttt 120  
 taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga 240  
 cccagacagc aaagttgcct gcgaaacatg caccaaaacc aacttgg 287

<210> 2278  
 <211> 206  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2278

gccacttacc anaaaacctg aagaaattgg tgctgntgac caggggtcaca tgtttggtta 60  
 tgccactgat gaaacccctg aattgatgcc attgagccat gttcttgcaa caaaactcgg 120  
 tgctcgtctc accgaggttc gcnagaacgg tactggcctt ggctgangct gatggaagac 180  
 ccaagtgacc gttgagtata caatga 206

<210> 2279  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2279

tgcacgcacg cgtacgtnag ctcggaattc ggctcgagac agcacaggag cgggttacng 60



tctgttcaag ctaccatctc tctctctctt tcntagtgcc tccttgccag aagttaaaat 120  
ggcccaagaa actttcctat tcacatctga atcagtgaac gaggggcacc ctgacaagcn 180  
ctgcgaccag atctccgatg ctgtgctcga tgcattgcttg gagcaggacc ctgacagcaa 240  
ggttgccctgt gaaacctgca ccaag 265

<210> 2280  
<211> 291  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2280

nanngcncgn gtacgtaagc tcgganttcg gctcgagggc caggcaagcc ccactcaacc 60  
accacacctc tcctcgttca cgctaccct tngtgctctt cttctacctt tcaagtttta 120  
aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
ctgacaagct ctgcgaccaa ntctccgatg ctgtcctcga cgcttgccctc gagcaggacc 240  
cagacagcaa agttgcctgc gaaacatgca ccataaccaa cttggtcattg g 291

<210> 2281  
<211> 330  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2281

gcacgcgtac gtaagctcgg aattcggctc gagatttgag gccaggcaag cccactcaa 60  
ccaccacacc tctcctcgtt cacgctaacc ctttctgctc ttcttctacc tttcaagttt 120  
tanaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 180  
ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga 240  
cccagacagc aaagttgcct gcgaaacatg gcacaaaaac caattggtca tggctcttcgg 300  
agaaatcaga ccaggccaag ttgattacga 330

<210> 2282  
<211> 283  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        2282

```
tcgcangcac gcgtacgtaa gctcggaatt cngctcgagg caagccccac tcaaccacca   60
cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag  120
tataaagatg gcagagacat tcctatttac ctcagagtcg gtgaacgagg gacaccctga  180
caagctctgc gaccaaattc ccgatgctgt cctcgacgct tgcctcgagc aggaccaga  240
cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg gtc                      283
```

<210>        2283  
 <211>        302  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2283

```
ncgtcgcatg cncgcgtacg taagctcgga attcggctcg ngngccaggn aagccccact   60
caaccaccac acctctcttc gttcacgcta cccctttctg ctcttcttct acctttcang  120
ttttaaaagt ataaagatgg cagagacatt cctatttacc tcagagtcgg tgnacgaggg  180
ncaccctgac aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgngcn  240
ggaccagac agcaaagttg cctgcgaaac atgcaccaat acnaacttgg tcatggtctt  300
cg                                                                302
```

<210>        2284  
 <211>        284  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2284

```
nangcacgcg tacgtaagct cggaattcgg ctcgagcaga gttgagacca agacacactc   60
gttcatatat ctctctgctc ttctcttctc ttctacctct caagtttttg aagtataaag  120
atggcagaga cattcctatt cacctcggag tcagtgaacg agggacaccc tgataagctc  180
tgcgacaaa tctccgatgc tgtcctcgac gtttgctcgc aacaggacn nacaancaaag  240
gttgctgng aaacatgcac caagaccaac ttggtcatgg tctn                      284
```

<210> 2285  
 <211> 208  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2285  
  
 cangcacgcg tacgtaagct cggaattcgg ctcgagcatt ggtgtccctg agcccttgtc 60  
 agtgtttgtg gacacttatg gaactgggaa gattcctgac aaggagattc tgcaaattgt 120  
 gaaggagaat ttcgacttca gacctggaat gatcaccatt aacttggacc ttaanagggg 180  
 tggatcatagg ttcctcaaga canntgct 208

<210> 2286  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2286  
  
 gcagacttna caacagcaca nagcgggtta ctgtctgttc aangctacga tctctgtctc 60  
 tggtatctta gtgcctacct tgccagaagn nannatggcc caatnaantt tccnattcac 120  
 atctgantca ntgaacnatg ggcaccctga naanctctgt gnccagatct ccgatgctgt 180  
 gctcgatgca tgcttggagc aggaccctga nagnagggt gcntgtnaaa cctgnaccaa 240  
 gaccaacatg gtgatggtnt tcggagagat 270

<210> 2287  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2287  
  
 nntcgcatgc acgcgtacgt aagctcggaa ttcggctcga ggntttgagg ccaggcaagc 60  
 cccactcaac caccacaent ctctcgttc acgtacccc tttctggctc ttcttctacc 120  
 tttcaagttt taaaagtata aagatggcag agacattcct atttacctca gagtcggtga 180  
 acgagggaca ccctgacaag ctctgcgacc aaatctccga tgctgtctc gacgcttgcc 240  
 tcgagcagga cccagacagc aaagttgcct gcgaaacatg caccanaacc aacntggtca 300

tg 302

<210> 2288  
 <211> 195  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2288

cgtaagctcg gaattcggct cgagncaatg atcaaattgc tgcggacctt aaagagcatg 60  
 ttatcaagcc tgtcattctt gagaagtacc ttgatgagaa ncaccatctt ccaccttaac 120  
 ccttctggcc gttttgtcat tgggtggcct catggtgatg ctggtctcac tggaagaaaa 180  
 tcatcattga tacct 195

<210> 2289  
 <211> 314  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2289

ngcntgtacg cgtacgtaag ctcggaattc ggctcgaggt caggcaagcc ccaactcaacc 60  
 accacacctc tgcctgngtt cangtaccc ctttntgctc ttcttctacc tttgaagttt 120  
 taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acganggaca 180  
 ccctgacaag ctctgcganc caaatctccg atgctgtcct cgacgnttgn ctcgagnagg 240  
 acccagacag naaagttgcc tgcgatanat gcaccannac caacttggtc atggtcttcg 300  
 gagaaatcac gacc 314

<210> 2290  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2290

tcgcngcacg cgtacgtaag ctcggaattc ggctcgagat ttgaggccag gcaagcccca 60  
 ctcaaccacc acacctctcc tcgttcacgc taccctttc tgctcttctt ctacctttca 120  
 agtttttaaaa gtataaagat ggcagagaca ttcctattta cctcagagtc ggtgaacgag 180

ggacaccctg acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgcctcgag 240  
caggacccag acagcaaagt tgctgcgaa acatggcacc aaaaccaact tggtcatggt 300  
ctt 303

<210> 2291  
<211> 285  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2291

gtcgcgatgca cgcgtacgta agctcggaat tcggctcgag cttacaaca gcacaaagcg 60  
ggttactgtc tgttcaagct accatctctc tctctcttct ttagtgctc cttgccagaa 120  
gttaaaatgg cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct 180  
gacaagctct gtgaccagat ctccgatgct gtgctcgatg catgcttgga gcaggaccct 240  
gacagcaagg ttgcctgttn aaacctgcac caagaccaac atggt 285

<210> 2292  
<211> 289  
<212> DNA  
<213> Glycine max  
<400> 2292

agtcgcgatgc acgcgtacgt aagctcgga ttcggctcga ggcagactta acaacagcac 60  
aaagcgggtt actgtctgtt caagctacca tctctctctc tctttcttag tgctccttg 120  
ccagaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg 180  
caccctgaca agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag 240  
gaccctgaca gcaagggttgc ctgtgaaacc tggcaccaag accaacatg 289

<210> 2293  
<211> 343  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2293

acngcgtacg tnanctcggg attcggctcg agggccaggc aagccccact caaccaccac 60

acctctctctc gttcacgcta cccctttctg ctcttcttct acctttcaag ttttaaaagt 120  
 atacagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg acaccctgac 180  
 aagctctgcg accaaatctc cgatgctgtc ctcgacgctt gcctcgagca ggacncagac 240  
 agcaaagttg cctgcgaaac atgcacaaaa accaattggt catggtcttc ggagaaatca 300  
 cgacagccan gttgatagag agatatgcgt gacnctgcag aca 343

<210> 2294  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2294

antcgnntgc acgcgtacgt aagctcggaa ttcggctcga ggggcaagcc ccaactcaacc 60  
 accacacntc tctctgttca cgctaccctt ttctgtcttt cttctacctt tcaagtttta 120  
 aaagtataaaa gatggcagag acatttcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacancct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc gagcaggacc 240  
 cagacagcaa agttgcctgc gaaacatgca ccanaaccaa cttggtcat 289

<210> 2295  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2295

gtcgcangca cgcgtacgta nagctcggaa ttcggctcga gntgaggcca ggcaagcccc 60  
 actcaaccac cacacctctc ctcgttcacg ctaaccctt tctgtctttc ttctaccttt 120  
 caagttttta aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg 180  
 agggacaccc tgacaagctc tgcgacaaaa tctccgatgc tgtcctcgac gcttgccctcg 240  
 agcaggaccc agacagcaaa gttgcctgcg aaacatgcac caaaacncac ttggtc 296

<210> 2296  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2296

agtagcangc acgcgtacgt aagctcggaa ttcggctcga gggcaagccc cactcaacca 60  
 ccacacntct cctcgttcac gctacccctt tcttntcttt cttctacctt tncaagtttt 120  
 aaaagtataa agatggcaga gacattccta tttacctcag agtcggtgaa cgagggacac 180  
 cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct cgagcaggac 240  
 ccagacagca aagttgcctg cgaaacatgc accaaaacca acttgg 286

<210> 2297  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2297

gtcgcattgca cgcgtacgtn agctcggaa ttcggctcga gggcaggcaa gcccactca 60  
 accaccacac ctctcctcgt tcacgctacc cctttctgct cttcttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gngacattcc tatttacctc agagtcggtg aagagggaca 180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga 240  
 cccagacagc aaagttgcct gcgaaacatg caccagaacc aacttgggtca tgggtcttcgg 300  
 agaaatcacg accaaggc 318

<210> 2298  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2298

ngnngcacgc gtacgtnagc tcggaattcg gctcgagttt gaggccaggc aagccccact 60  
 caaccaccac acgggctcct cgttnacgct acccctttct ncctcttctt ctacctttca 120  
 agtttttaaaa gtataaaaaat ggcagagaca ttctatttta cctcagagtc ggtgaacgag 180  
 ggacaccctg acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgcctcgag 240  
 caggacccag acagcaaagt tgctgcgaa acatgcacca aaaccaactt 290

<210> 2299  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2299

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag agcagactta acaacagcac 60  
 aaagcgggtt actgtctgtt caagctacca tctctctctc tctttcttag tgcctccttg 120  
 ccagaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt gaacgagggg 180  
 caccctgaca agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag 240  
 gaccctgaca gcaagggtgc ctgtgaaacc tgcac 275

<210> 2300  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2300

ncgtcgcang cgcgtacg taagctcgga attcggctcg agaggcaagc cccactcaac 60  
 cancacangg nncctcgtn acgtacccc tntctnctc ttcttctacc tttcagnn 120  
 ttaaaagtat aaagatggca gagacattcc tatttaccag agtcggtgaa cgagggacac 180  
 cctgacaagc tctgcgacca aatctccgnt gctgtcctcg acgttgcct cgagcaggac 240  
 ccagacagca aagttgcntg cgaaacatgc nccaaaacca acttggncaat ggtcttcgga 300  
 gaaatcag 308

<210> 2301  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2301

nngtcganc acgcgtacgt aagctcggaa ttcggctcga notcgagccg attcggctcg 60  
 aggcccant caaccaccac acctctanct cgttcaogct acccctttct gctcttcttc 120  
 taactttcaa gttttaaaag tataaagatg gcagagacat tcctatttac ctcagagtcg 180



gtgaacgagg gacaccctga caagctctgc gaccaaattct ccgatgctgt cctcgacgct 240  
 tgcctcgagc aggacccaga cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg 300

<210> 2302  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2302

acgtcgcang cacgcgtacg taagctcgga attcggctcg agcaggcaag ccccaactcaa 60  
 ccaccacacc tctcctcggt cacgctaccc ctttctgctc ttcttctacc tttcaagttt 120  
 taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggaca 180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacggcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgcgaaacat gcancaaaac caacttggtc atggt 295

<210> 2303  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2303

atgcacgcgt acgtaagctc ggaattcggc tcgaggccat ttgggagtta ggttctgcac 60  
 gctctgcttc cagcgagtgt tctttcttcg tttcaacacc ttaatttgca nacgtgctt 120  
 cttcngcttg agaaatggca caagaaacct ttctattcac atctgaatct gtaaacgagg 180  
 gtcaccccgga caagctgtgc gaccagatct ctgatgcagt gctcgatgcg tgctgaaca 240  
 ggaccctgac agcaaggttg cctgtgagac atgcaccaag a 281

<210> 2304  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2304

acgtcgcang cacgcgtacg taagctcgga attcggctcg aggggttact gtctgttcaa 60

gctaccatct ctctctctct ttttagtgct ctctttgccga gaagttaaaa tggcccaaga 120  
aactttccta ttcacatctg aatcagtga cggggggcac cctgagaagt ctgtgaccag 180  
atctccgatg ctgtgctcga tgcattgnttg gagcaggacc ctgacagcaa ggttgccctgt 240  
naaacctgca ncaagancaa catggtgatg gntttncgga gagatcacia acanngc 297

<210> 2305  
<211> 310  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2305

gtcgcacgca cgcgtacgtn agctcggaat tcggctcgag cngccactaa cgtaatcagg 60  
ggnacaaagn natcacaagt tcaancnact tntcnnttc ttaangggcg tccntnccag 120  
ncgttaaaat ggcccaagaa actttcctat ncacatctga atcagtgaac gangggcacc 180  
ctgacagctc tgtgaccaga tctccgatgc tgtgctcgnt gcntgcntgg agcaggaccc 240  
tgacagcnag gntgcctgtg aaacctgcac caagacnnac atggtgangg ttttcggang 300  
anatcacaac 310

<210> 2306  
<211> 295  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2306

tcgcangcac gcgtacgtaa gctcggaatt cggctcgagg gccaggcaag cccactcaa 60  
ccaccacacc tctcctcggt cagctaccc ctttctgctc ttcttctacc tttcaagttt 120  
taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgagggacc 180  
cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt cgagcaggac 240  
ccagacagca aagttgcctg cgaacatgc accannacca acttggtcat ggtct 295

<210> 2307  
<211> 158  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 2307

cnagggacac cctgataagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct 60  
 cgaacaggac tcagacagca aggttgcctg cgaaacatgc accaagacca acttgggtcat 120  
 ggtcttcgga gagacaccac caaggccaac gttgacta 158

<210> 2308  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2308

tcaagancac gcgtacgtaa gctcgggaatt cggctcgagg acttaacanc agcacaaaagn 60  
 gggttactgt ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga 120  
 agttaaaatg gcccaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggacccc 180  
 tgacaagctc tgtgancaga tctccgatgc tgtgctcgat gcatgcttgg agcaggacccc 240  
 tgacagcaag gttgctgtga aacctgcacc aagaccaaca tgtgatgggtt ttcggaanag 300  
 at 302

<210> 2309  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2309

acgtcgcgat cacncgtacg taagctcggg aattcnctc gagggcaagc cccactcaac 60  
 caccacacct ctctcgttc acgtacnnc tttctgctct tcttctacct ttcaagtttt 120  
 aaaagtataa agatggcaga gacattccta ttacctcag agtcggtgaa cgagggacac 180  
 cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct cgagcaggac 240  
 ccagacagca aagttgcctg cgaaacatgc caccaaaacc aacttggtca tggtc 295

<210> 2310  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        2310

gtcgcangca cgcgtacgta agctcggaat tcggctcgag gcagacttaa caacagcaca    60  
 aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttcttagt gcctccttgc   120  
 cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagtg aacgaggggc   180  
 accctgacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc ttggagcagg   240  
 accctgacag caaggttgcc tgtgaaacct g     271

<210>        2311  
 <211>        306  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2311

tnacangcac gcgtacgtaa gctcggaatt cggctcgagg gccaggcaag ccccaactcaa    60  
 ccaccacacc tctcctcggt cacgctaccc ctttctgtct ttcttctacc tttcaagttt   120  
 taaaagtata aagatggcag agacattcct atttacctca gagtcggtga acgaggggaca   180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga   240  
 cccagacagc aaagttgcct gcgaaacatg caccanaacc aattgggtcat ggtttcggag   300  
 aatcac     306

<210>        2312  
 <211>        308  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2312

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag ggccaggcaa gccccactca    60  
 accaccacac ctctcctcgt tcacgtacc ctttctgtct cttcttctac ctttcaagtt   120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagnngtga acgaggggaca   180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga   240  
 cccagacagc aaagttgcct gcgaaacatg caccanaacc aacttgggtca tgggtcttcgg   300

agaaatca

308

<210> 2313  
<211> 290  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2313

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cagcaciaaag cgggttactg tctgntcaag ctaccatctc tctctctctt tcttagtgcc 120  
tccttgccag aagttaaaat ggccaanna actttccnat tcacatctga atcagtgaac 180  
gagggggcacc ctgacaagct ctgtgaccag atctccgatg ctgtgctcga ngcatgcttg 240  
gagcaggacc ctgacagcaa ggttgctgtg gaaacctgca ccaagaccaa 290

<210> 2314  
<211> 294  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2314

tcgcatgcac gcgtacgtaa gctcgggaatt cnnctcgagg caagccccac tcaaccacca 60  
cacctctcct cggtcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag 120  
tataaagatg gcagagacat tcctatttac ctncagagtc ggtgaacgag ggacaccctg 180  
acaagctctg cgaccaaata tccgatgctg tcctcgacgc ttgcctcgag caggaccag 240  
acagcaaagt tgctgcgaa acatgcacca aaaccaactt ggtcatgggc ttgc 294

<210> 2315  
<211> 297  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2315

ncgtcgcang cagcgtacg taagctcgga attcggctcg aggatttgag gccaggcaag 60  
ccccactcaa ccaccacacc tctcctcggt cagcgtaccc ctttctgctc ttcttctacc 120  
tttnaagttt taaaagtata aagatggcag agacattcct atttacctca gagtcgggtg 180

acgagggaca ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc 240  
 tcgagcagga cccagacagc aaagttgcct gcgaaacatg caccaaaacc aantggt 297

<210> 2316  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2316

acagcacnaa gcggggttact gtctgttcaa gctaccatct ctctactctc tttcttagtg 60  
 cntccttgct agangttana atggcccang anactttcct attcacatct gantnagtga 120  
 acgaggggca ccctgacaag ctctgtgncc agatctccga tgctgtgctc gatgcatgcn 180  
 tggagcagga ccctgacanc aaggttgccct gtgaaacctg caccaagacc anc 233

<210> 2317  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <400> 2317

tcgctgcacg cgtacgtaag ctcggaattc ggctcgaggc caggcaagcc ccaactcaacc 60  
 accacacctc tcctcgttca cgctaccctt ttctgtcttt cttctacett tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcgggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc gagcaggacc 240  
 cagacagcaa agttgcctgc gaaacatgca ccaaaaccaa ttggtcat 288

<210> 2318  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2318

nncgtcgcan gcacgcgtac gtaagctcgg aattcggctc ganactcgag ccgattcggc 60  
 tcgagggccc cactcaacca ccacacctct anctcgttca cgctaccacc tttctgtctt 120  
 tcttctaact ttcaagtttt aaaagtataa agatggcaga gacattccta tttacctcag 180

agtcggtgaa cgagggacac cctgacaagc tctgcgacca aatctccgat gctgtcctcg 240  
acgcttgctt cgagcaggac ccagacagca aagttgcctg cgaaacatgc accaaaacca 300  
attg 304

<210> 2319  
<211> 305  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2319

tcgcangcac gcgtacgtna gctcggnatt cggctcgagn ntttgaggcc aggcaagccc 60  
cactcaacca ccacacctct cctcgttcac gctacccctt tctgctcttc ttctaccttt 120  
caagttttta aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg 180  
agggacaccc tgacaagctc tgcgaccaa tctccgatgc tgtcctcgac gcttgccctg 240  
agcaggaccc agacagcaaa gttgcctgcg aaacatgcac caaaaccaan tgggtcatggt 300  
cttcg 305

<210> 2320  
<211> 299  
<212> DNA  
<213> Glycine max  
<400> 2320

cgcattgcacg cgtacgtaag ctcggaattc ggctcgaggg ccaggcaagc cccactcaac 60  
caccacacct ctctcgcttc acgctacccc tttctgctct tcttctacct ttcaagtttt 120  
aaaagtataa agatggcaga gacattccta ttacctcag agtcggtgaa cgagggacac 180  
cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt cgagcaggac 240  
ccagacagca aagttgcctg cgaaacatgc accaaaacca attggtcatg gtcttcgga 299

<210> 2321  
<211> 316  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2321

tcgcatgcac gcgtacgtna gctcggaatt cngctcgagc ngctcgagca cacctctcct	60
cgttcacgct acccctttct gctcttcttc tacctttcaa gttntaaaag tataaagatg	120
gcagagacat tcctatttac ctgagagtcg gtgaacgagg gacacctgac aagntgcga	180
ccaaactccg atgctgtcct cgacgcttgc ctgagcagg acccagacag caaagttgcc	240
tgcgaaacat gcacaaaaac caattgggtca tggctctcgg agaaatcacg accaggccaa	300
gttgactacg agaaga	316

<210> 2322  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2322

gtcgcangca cgcgtacgta agctcggaat tcggctcgag gagccatttg ggagttaggt	60
tctgcacgct ctgcttcag cgagtgttct ttcttcgttt caacacctta atttgcacac	120
gctgcttctt cagcttgaga aatggcaca gaaacctttc tattcacatc tgaatctgta	180
aacgagggtc accccgacaa gctgtgcgac cagatctctg atgagtgtc gatgcgtgcc	240
ttgaacagga ccctgacagc aagggtgcct gtgagacatg caccaaga	288

<210> 2323  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2323

gtngcangca cgcgtacgta agctcggaat tcnctcgag gcaagcccca ctcaagcagc	60
acanctctcc tcgttcacgc tacccttnc tgctcttctt ctacctttca agttttaaaa	120
gtataaagat ggcagagaca ttntatatta cctcagagtc ggtgaacgag ggacacctg	180
acaagctctg cgaccaaadc tccgatgntg tcctcgaatg naaatcgagc aggaccaga	240
nagcaaagtt gnctgcgana catgcaccaa aaccaacttg gtcatggtct tcggagaaa	299

<210> 2324  
 <211> 254



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2324  
  
 caacagcaca aagcgggtta ctgtctgttc aagctaccat ctctctctct ctttgcttag 60  
 tgccctccttg ccagaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt 120  
 gaacgagggg caccgcacaa gctctgtgac cagatctccg atgctgtgct cgatgcatgc 180  
 ttggagcagg accctgacag caaggttgcc tgtgaaacct ngcaccaaga ccnacatggt 240  
 gatgggttttc ggag 254

<210> 2325  
 <211> 227  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2325  
  
 cacgcgtacg taagctcgga attcggctcg annttctcaa cattgtgaag gaaaactttg 60  
 atttcaggcc tggatgatc tccatccaac cttgatctca agaggggtgg aaataacagg 120  
 tttttgaaga ctgctgccta tggacacttt ggaagagaag accctgacnt tcacatgggg 180  
 aagttggtcc naccncntcn agttgggnaa agccnaacca tttcatc 227

<210> 2326  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2326  
  
 gtcatgnagg acgnangacg tgnagctcag nattcggntc gagcgttcac gctaaccct 60  
 ttctggctct ncttcnanct ttcaagtttt aaaagtatan agatgngcag aganatctct 120  
 atttacctac agagtcggtt aacgagggac accctgacaa gctctgacgac caaatcccga 180  
 tgctntcctc gacgcttgcc tcgagcngga ccagacagc aaagttgcct gcgaaacatg 240  
 caccaaaacc aacttggtca tgggtcttcgg aganntcang accaaggcca acgt 294

<210> 2327

<211> 281  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2327

cgctgcacatgc acgcgtacgt aagctcggaa ttcggctcga ggnggggttac tgtctgtnc 60  
 anctaccatc tctctctctc tntcttagtg cctcccgtn cagnngtnan aatggcccaa 120  
 naaactttcc tattnacatc tgaatcagtg aacgangggc anccganaan ctccgtgacc 180  
 agatntccga tgctgtgntc gatgcatgct tggagcagga ccctgacagc aaggttgcc 240  
 gtganacctg caccaagacc ancatggtn tggtttncgg a 281

<210> 2328  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2328

tacgttncnc gcgtacgtaa gctcgggaatt cggctcgaga acagnacaaa gcgggttact 60  
 gtctgttcaa gctaccatcc tctctctctc nttcttagtg cctcctnnn anaagttaaa 120  
 atggcccann anactttcct atncacatct gaatcantga acgaggggca cnetgacaag 180  
 ntctgtgncc agatctccgg tgctgtgctc gatgcatgct tggagcagga ccctgacagc 240  
 aaggntgcct ggaaacctgc acnaagacca acatggtgat ngntttcgga gann 294

<210> 2329  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2329

gntgcatgca cgcgtacgta agctcggaa ttcggctcgag tgaggccagg caagccccac 60  
 tcaaccacca cacctctcct cgttcacgct acccctttct gctacttctt ctacctttca 120  
 agtttttaaaa gtataaagat ggcagagaca ttcctattta cctcagagtc ggtgaacgag 180  
 ggacaccctg acangctctg cgaccaaadc tccgatgctg tctctgacgc ttgcctcgag 240  
 caggacccag acagcaaagt tgctcgcaa acatgcacca aaac 284

<210> 2330  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2330

naacgcangc acgcgtacgt aagctcggaa ttcggctcga gggccaggca agccccactc 60  
 aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt 120  
 tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggga 180  
 caccctgaca agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg cctcgagcag 240  
 gaccagaca gcaaagttgc ctgcgaaaca tgcacaaaaa cc 282

<210> 2331  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2331

angtcgcang cacgcgtacg taagctcggga attcggctcg nctcgcagcc gaatnggctc 60  
 gagcacaaaag cgggntactg ncngntacaa gctacnatct ctncctctc tntcttagtg 120  
 nctacctgcc agangtnaaa atggccnaag aaactntnct attnnnatct gnttcagtga 180  
 acgagggggca cnctgacaan ntctttgacg agatctccga tgctgtgntc gatgcatgct 240  
 tggagcagga ccctgacagc aaggttgcct gtnaaacctg cncnaananc aacatgggtga 300  
 tggtttcgg 309

<210> 2332  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2332

ggccaggcaa gccccactca accaccacac aagtntcgt cacacgctga cccctttctg 60  
 gtnttnttgt anntttcaag ntttaaaagt ataaagatgg cagagacatt cctattttacc 120

tcagagtcgg tgaacgaggg acaccctgac aagctntgcg accaaatctc cgatgctgtc 180  
ctcgacgctt gcctcgagca ggacccagac agcaaagttg cnngcgaaac atggcaccaa 240  
aaccaattgg tcatggtntt cg 262

<210> 2333  
<211> 296  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2333

tngtctcatg cagcgtacg taagctcgga attcggctcg anctcgancc gnttcggcta 60  
ctagaagccc cactcaacca ncacacctcn cnctcggtca ngctaccctt ttctgctctt 120  
cttctacctt caagttttta aagtataaag atggcagaga cattcctatt tacctcagag 180  
tcggtgaacg agggacaccc tgacaagctc tgcgacaaa tctccgatgc tgtcctcgac 240  
gcttgctctg agcaggaccc agacagcaaa gttgcctgcg aaacatgcac caaaac 296

<210> 2334  
<211> 291  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2334

tngtcgcang cagcgtacg taagctcgga attcggctcg nnctcgagcc gattcggctc 60  
gagcaacagc acaaagcggg ttactgtngg ttcaagctac catctctact ctctctntct 120  
tagagcctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 180  
agtgancgag gggcaccttg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 240  
atgcttggag caggaccttg acagcaaggt tgctgtgaa acctgcacca a 291

<210> 2335  
<211> 271  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2335

cgctggtgca cgcgtacgta agctcggaat tcggctcgcn agctccactc aaccaccaca 60

cntctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt tttaaaagta 120  
 taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggg caccctgaca 180  
 agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg cctcgagcag gaccagaca 240  
 gcaaagttgc ctgcgaaaca tgcacaaaaa c 271

<210> 2336  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2336

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ggccaggcaa gccccactca 60  
 accaccacac tggctcctcg tttncgctac ccctttctnc ctcttcttct acctttcaag 120  
 ttttaaaagt ataaagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg 180  
 acaccctgac aagctctgcg accaaattctc cgatgctgtc ctcgacgctt gcctcgagca 240  
 ggaccagac agcaaagttg cctgcgaaac atgcacaaaa acca 284

<210> 2337  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2337

ncgtcgang cacncgtacg taagctcgga attcggctcg nnctcgagcc gattcggctc 60  
 gagcaagccc cactgcaacc accacaacnt cttcctcggt cagactacc cctttctgct 120  
 cttcactcta cctttcaagt tttaaaagta taaagatggc agagacattc ctatttacct 180  
 cagagtcggt gaacgagggg caccctgaca agctctgcga ccaaattctcc gatgctgtcc 240  
 tcgacgcttg cctcgagcag gaccagaca gcaaagttgc ctgcgaaaca tgcacaaaaa 300  
 cca 303

<210> 2338  
 <211> 183  
 <212> DNA  
 <213> Glycine max

tgcgatgcac	gcgtacgtna	gctcgggaatt	cggctcagagt	gaaaccctg	agtacatgcc	60
cctcagccat	gtccttgcaa	ccaaactcgg	tgctcgcctc	accgagggtta	ggaaaaatgg	120
tacctgtgct	tggtgagggc	cagatggcaa	gacacaagta	actgttgagt	actacaatga	180
caa						183

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<223>      unsure at all n locations
<400>      2339
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<210>	2340
<211>	259
<212>	DNA
<213>	Glycine max

tgcgancac	ngngtacgtn	agctcggaat	tcggctcgag	ganagcacia	agcgggttac	60
ngtctgtnc	agctaccatc	tctctctctc	tttcttagtg	cctccttgcc	agaagttaaa	120
atggcccaag	aaactttcct	attcacatct	gaatcagtga	acgaggggca	ccctgacaag	180
ctctgtgacc	agatctccga	tgctgtgctc	gatgcatgct	tggagcagga	ccctgacagc	240
aaggttgcct	gtgaaacct					259

854

<211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2341

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ncgcatgcac gcgtacgtaa gctcgggnatt cngctcgnnc tcgagccgat tcggctcgag 60
aaacgagcca tttggnagtn aggtncctgc acgntctgct taccgcgnag tgttctttct 120
tcacttcaac accttaattt ncacacgctg cttcttcngc ttgaganatg gcacaagaaa 180
cntttctatt cacatctgaa tctgtaaacg anggtcaccc cgacaagctg tgcgaccaga 240
tctctgatgc agtgctcgat gcgtgccttg aacaggaccc tgacagcaag gttncctgtn 300
agacatgcn 309
```

<210> 2342  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2342

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cgtgcagcgt acgtaagctc ggaattcggc tcgagcagac ttaacaacag cacnaagcgg 60
gttantgtct gttcaagcta ccatctctct ctctntttct tagtgccctcc ttgccagang 120
ttaaaatggc ccaanaaact ttctntttca catctgaatc agtgaacgag gggcaccctg 180
acaagntctg tgaccagatc tccgntgctg tgctcgatgc atgcttggag caggaccctg 240
acancaaggt tgcctgtgan acctgcacca agaccaa 277
```

<210> 2343  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2343

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gtcgcangca cgcgtacgtn agctcggnat tcggctcgag gnggccaggc aagccccact 60
caaccaccac acctctcttc gttcacgcta cccctttctg ctcttcttct acctttcaag 120
ttttaaaagt ataaagatgg cagagacatt cctatattacc tcagagtcgg tgaacgaggg 180
acaccctgac aagctctgcg accaaatctc cgatgctgtc ttcgacgctt gcctcgagca 240
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ggacccagac agcaaagttg cctgcgaaac atgcaccaaa nccaact

287

<210> 2344

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2344

cacgcgtacg taagctcgga attcngctcg aggcaagccc cactcaacca ccacacctct 60

cctcggttcac gctacccctt tctgctcttc ttctaccttt caagttttaa aagtataaag 120

atggcagaga cattcctatt tacctcagag tcgggtgaacg agggacaccc tgacaagctc 180

tgcgacaaaa tctccgatgc tgtcctcgac gcttgccctcg agcaggaccc agacagcaaa 240

gttgcctgcg aaacatgcac caaaaccaat tgggtcatgnt cttcggagaa atcacgacca 300

ggccaagntg actacgagaa g 321

<210> 2345

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2345

ngtcgcangc acgcgtacgt nagctcggnn ttcggctcgn nntcgagccg aatcggtctg 60

agcaaagacc ccactcaacc accaancctc tctcgttca cgctacccct ttctgctctt 120

cttctacctt tcaagtttta aaagtataaa gatggcagag acattcctat ttacctcaga 180

gtcgggtgaac gagggacacc ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga 240

cgcttgccctc gagcaggacc cagacagcaa agttgcctgc gaaacatgca ccaaaaccaa 300

ttg 303

<210> 2346

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2346



tcgcangcac gcgtacgtaa gctcggaatt cggctcgagc tcnagccggt gatttggagt	60
ttggagcgac tgaactaatc attaatttgc actccgctgt ttcagcttca tcacccttct	120
tttgcacatc ttatatctct tgagaaatgg cacaagaaac ctttctattc acatctgaat	180
ctgtaaacga nggtcacccc gacangctgt ncnancagat ctctgatgca gtacttgatg	240
cgtgcctgan caggaccctg acagcaaggt tgctgtgag acatgcacca agaccaantg	300
gtcatgg	307

<210> 2347  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2347

gtcnctgcac gcgtacgtaa gctcggaatc ggctcgannc tcgagccgaa tcggctcgag	60
aacagcacia agcgggttac tgtcacttca agctaccatc tatctctntn ctttcttagt	120
gcntccttgg ccanaagtta aaatggccca agaaactttc ctattcacat ctgaatcagt	180
gaacgagggg caccctgaca agctctgtga ccagatctcc gatgctgtgc tcgatggcat	240
gcttggagca ggaccctgac agcaaggttt nctgtgnaaa cntggtacca agaccaacat	300
ggtgatggtt ttcggn	316

<210> 2348  
 <211> 281  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2348

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag gcccactca accaccacac	60
cactctctct gctcttcttc tacctttcaa gtttttaaag tattaagatg gcagagacat	120
tcctatctac ctcagagtca gtgaacgagg gacaccctga cagctctgcg accaaatctc	180
cgatgctgtc ctcgacgctt gccttgaaca ggaccagac ancaagggtg cctgcgaaac	240
atggcaccaa gaccaattgg tcatggtctt cggagagatc a	281

<210> 2349

<211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2349

aaagtcgcan gcacgcgtac gtaagctcgg aattcggctc gagcactcaa ccaccacacc 60  
 tctcctcggt cagcgtaccc ntttctgnct ncttcttcta cctttcaagt tttaaaagta 120  
 taaagatggc agagacattc ctattttacct cagagtcggt gaacgaggga caccctgaca 180  
 agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg cctcgagcag gaccagaca 240  
 gcaaagttgc ctggcgaaac atgcacaaa accaacttgg tccatggtct tcgga 295

<210> 2350  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2350

tttacttnnc ccgnccggta caagtcataa attcccgggn cgacccacgc ntccnnccac 60  
 gcgtccgtac ggctgcgaga agacgacaga agggggcagc gcttgatttg aggccaggca 120  
 agccccactc aaccaccaca cctctcctcg ttacgctac ccctttctgc tcttcttcta 180  
 cctttcaagt tttaaaagta taaagatggc agnacattc ctattttacct canagtcggt 240  
 gaacgaggga cncctgaca agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg 300  
 ccncgatcag gaccagaca gcaaanttgc ctgcaaaa tgcacaaaa accaacttgg 360  
 tcatggtctt cggagaaatc angacaaan gccaacgtng actacngaag aanaatagtg 420  
 cgttnacacc tngcaggaac atcngcttc gtctcaaat gatttgngga ctggattcnc 480  
 naacaactgg g 491

<210> 2351  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2351

gtcgnangan gcacgcgtac gtnagctcgg aattcggctc gagnacgac aaagcgggtt 60

acngtctgtt caagctacca nctctctctc tctttcttag tgcctccttg ccagangtta 120  
 aaatggccca agaaacttnc ctanncacat ctgaatcagt gaacgagggg caccctgaca 180  
 agctcngtga ccagatcncc gatnctgtgc ncgatgcatg cttggagcag gaccctgaca 240  
 gcaaggtngc ctgtgaaanc tgcaccaaga ncaact 276

<210> 2352  
 <211> 315  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2352

anggnngngc acgcgtacgt aagctcggaa ttcgggtcga gnggcnagcc cactcaacc 60  
 accacacctc tcctcggttca ngctacccct ttctgctctt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc gagcaggacc 240  
 cagagagcaa ggttgcntgc gaaacangca ccnaaaanca anttggtnat ggtccttcgg 300  
 ngattcacga ccang 315

<210> 2353  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2353

gccnangcac gcgtacgtaa gctcgggaatt cggctcgagt gatttgangc taggcaagcc 60  
 ccantcaacc accacacctc tcctcggttca cgctacccct ttctgctctt cttctacatt 120  
 tcnagtttta aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac 180  
 gtnggacacc ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc 240  
 gagcaggacc cagacagcaa agttgcctgc gaaacatgca ccaaaac 287

<210> 2354  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 2354

agtcgcangc acgcgtacgt aagctcggan ttngctcga gggcaagccn cactcaacca 60  
cnacacntct cctcggttnc cgtaccctt ttgctnctt tcttctacct ttcaagtttt 120  
aaaagtataa agatggcaga gacattccta ttacctcag agtcggtgaa cgaggacac 180  
cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgcct cgagcaggac 240  
ccagacagca aagttgcctg cgatacatgc accaaaa 277

<210> 2355  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2355

cnntcaacnn gnanagtcgc angcacgcgt acgtaagctc ggaattcggc tcgaggcaga 60  
cttaacaaca gcacaaagcg ggttactgtc tgttcaagct accatctctc tctctctttc 120  
ttagtgcttc cttgccagaa gttaaaatgg cccaagaaac tttcctattc acatctgaat 180  
cagtgaacga ggggcaccct gacaagctct gtgaccagat ctccgatgct gtgctcgatg 240  
catgcttggg gcaggaccct gacagcaagg ttgcctgtga aacctggaac caaggnccan 300  
tttgnn 306

<210> 2356  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2356

tcgcangcac gcgtacgtaa gctcggaatt cggtcagat gaggccaggc aagccccact 60  
caaccaccac acctctctc gttcacgcta cccctttctg ctcttcttct acctttcaag 120  
ttttaaaagt ataaagatgg cagagacatt cctatttacc tcagagtcgg tgaacgaggg 180  
acacctgac aagctctgcg accaaatctc cgatgctgtc ctcgncgctt gcctcgagca 240  
ggaccagac agcaaagttg cctgcgaaac atgcacaaa ancaa 285

<210> 2357  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2357

nagtcgcang cagcgtacg taagctcgga attcggctcg agttgaggcc aggcaagccc 60  
 cactcaacca ccacacctct cctcggtcac gctaccctt tctgctcttc ttctaccttt 120  
 caagttttta aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg 180  
 agggacaccc tgacaagctc tgcgaccaa tctccgatgc tgtcctcgac gcttgccctcg 240  
 agcaggaccc agacagcaaa gttgcctgcg aaacatgcac caaacaact tggtcatg 298

<210> 2358  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2358

gtngcangca cgcgtacgta agctcggaat tcggctcgag nttgaggcca ggcaagcccc 60  
 antcaaccac canacacnct cctcgtnnat ggctaccctt ttctnnctct tcttgctacc 120  
 tttncagtt tnaaaagtat aaagatggca ganacattcc tatctacctc agagtcggtg 180  
 aacgagggac accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc 240  
 ctcgagcagg acccagacag caaagttgcn tgcgaaacat gcaccaan 288

<210> 2359  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2359

tcgcatgcac gcgtacgtaa gctcggaatt cngctcgagg caagccccac tcaaccacca 60  
 cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag 120  
 tatanagatg gcagagacat tcctatttac ctcagagtcg gtgaacgngg ngacaccctg 180  
 acaagctctg cgaccaaadc tccgatgctg tcctcgacgc ttgcctcgag caggacccag 240

acagcaaagt tgcctgcgaa acatgcacca aaaccaactt ggtcatggtc ttcggagaaa 300  
 tcacgaccaa gccaaagttga ctagaagaag atatg 335

<210> 2360  
 <211> 505  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2360

ttcnaacttt caccgcccag gtaacngtan aagaattccc ggnccgaccc acnggtcanc 60  
 ccangcgtcc gccacgcgt ccgtacggct gcnanaagac gacagaangg gcaccgcttg 120  
 agcagactta acaacatnac aaaccgggtt actgtctgtt canggctacc atctctctct 180  
 ctctttctta ggtgntctct tgccagnang tnnnaatgng gnaagnaac ttnctattc 240  
 acatctgant cagtgaacga tgggnaccnt gacaagctct gtgaccagat cnccgatgcn 300  
 gtgctcgatg cangcttgga gcaggaccct gacagenncg ttgcctgtga aacctgcacc 360  
 aataccanca tggatgatggg ttttcggaga gatnccaanc gangccnaan nttgnaacta 420  
 ttaggaagat tngnggcgnt gacncatnca ggaananttn ctttgncgcc nngntnatgg 480  
 ntgctcctgn nggcnganaa ncttc 505

<210> 2361  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2361

acgtcgcang cacgcgtacg taagctcgga attcggctcg aggcagactt aacaacagca 60  
 canagcgggt tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt 120  
 gccagaagtt aaaatggccc aagaantttt cctattcaca tctgaatcag tgaacgaggg 180  
 gcaccctgac aagctctgtg accagatctc cgatgctgtg tcgatgcatg cttggagcag 240  
 gaccctgaca gcaaggttgc ctgtgaaacc tgcaccaaga cca 283

<210> 2362  
 <211> 495

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2362

```

tttacnagct cttacgcggn caantaccgt gtntaggnat tcccgggctc gacncacgcg   60
tcagtacggc tgcgagaagn gaacnnaggg ggcaacacnt ggnttgangn catgcaagcc  120
ccactcaacc accacacctc nctcgttca cgctaccctt ttctgctctt cttctanctt  180
tcatntttta anncgatan agatggcana gacattccta tttacntcag ngtcagtga   240
cganggacac nctgacaagc tctgcgagca aatctccagn tgctgtcctc gacgcttgcc  300
tcgancagga ccatacagc aaacttgcct gccaanatg ctccaaaacc ancttggtcn   360
tngtcttcgg anaaatcncn accaaggcca acnttgactn cnanangata ntgcgttaca  420
ctgcnggaac atnggcttct tctcatatga tntgggactg gattccnacb cctgcaaagt  480
ccttcgtcaa ctttt                                     495

```

<210> 2363  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2363

```

gttgcattga cgcgtacgta agctcggaat tcnctcgag aacagcacna agcggggttac   60
tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc agaagttaaa  120
atggcccaag aaactttcct attcacatct gaatcagtga acgagggcac cctgacaagc  180
tctgtgacca gatctccgat gctgtgctcg atgcatgctt ggagcaggac cctgacagca  240
aggttgccctg tgaaacctgc accaag                                     266

```

<210> 2364  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2364

```

agtcactgca cgcgtagtaa gctcggaatt cggctcganc tcgagccgat tcggctcgag   60

```

ggcagactta acaacagcac aaacgcgggt tactgtctgn tcaagctacc atctctctct 120  
ctctttctta gtgcctcctt gccagaagtt aaaatggccc aagaaacttt cctattcaca 180  
tctgaatcag tgaacgaggg gcaccctgac aagctctgtg accagatctc cgatgctgtg 240  
ctcgatgcat gcttggagca ggaccctgac agcaagggtg cctgtg 286

<210> 2365  
<211> 299  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2365

tgcacgcac gcgtacgtna gctcggaatt cggctcgagg cagacttaac aacagcacia 60  
agcggggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120  
agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
ccctgacaag ctctgtgacc agatctccga tgctgtgctc gatgcatgct tggagcagga 240  
ccctgacagc aaagttggcc tgtgaaacct gcaccangng tgacatggtg atggtttcg 299

<210> 2366  
<211> 316  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2366

naaaanaang gaaantcgca tgcacgcgta cgtnagctcg gaattcggct cgagggccag 60  
gcaagcccca ctcaaccacc acacctctcc tcgttcaagc tacccttttc tgctcttctt 120  
ctacctttca agtttttaaaa gtataaagat ggcagagaca ttctatttta cctcagagtc 180  
ggtgaacgag ggacaccctg acaagctctg cgaccaaate tccgatgctg tcctcgacgc 240  
ttgcctcgag caggacccag acagcaaagt tgctgcgaa actgcaccan aaccaattgg 300  
tcatggtctt cggaga 316

<210> 2367  
<211> 289  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 2367

gtcgcngcac gcgtacgtga gctcgggaatt cggctcgagg gccaggcaag cccactcaa 60  
 ccaccacacc tctcctcggt caccgtaccc ctttctgctc ttcttctacc ttacaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180  
 accctgacaa gctctgcgac caaatctccg atgctgtcct cgacgcttgc ctcgagcagg 240  
 acccagacag caaagttgcc tgcgaaactg caccancacc aatttgtca 289

<210> 2368  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2368

gtcgcangca cgcgtacgtn agctcgggaat tcggctcgag ggccaggcaa gcccactca 60  
 accaccacac ctctcctcgt tcacgctacc ctttctgctc cttcttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggta acgagggaca 180  
 ccctgacaag ctctgcgacc aaatctccga tgctgtcctc gacgcttgcc tcgagcagga 240  
 cccagacagc aaagttgcct gcgaaacatg caccataacc aacttgttca tgggtcttcgg 300  
 ag 302

<210> 2369  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2369

cgcattgcacg cgtacgtnag ctcggaattc ggctcgagtt tgaggccagg caagcnccac 60  
 tcaaccacca cacctctcct cgttcacgct acccctttct gctacttact tctacctttc 120  
 aagtttttaa agtataaaga tggcagagac attcctatct acctannagc cggatgaacga 180  
 gggacaccct gacaagctct gcgaccaaatt ctccgatgct gtccctcgacg cttgcctcga 240  
 gcaggaccca gacagcaaag ttgcctgcga aacatgcacc aaaacnaa 288

<210> 2370  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2370

cgcangcacg cgtacgtaag ctcggaattc ngctcgagca agccccactc aaccaccaca 60  
 cctctcctcg ttcacgtac ccctttctgc tcttcttcta cctttcaagt tttaaaagta 120  
 taaagatggc agagacattc ctatttacct cagagtcggt gaacgagga caccctgaca 180  
 agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg cctcgagcag gacccagaca 240  
 gcaaagttgc ctgcgaaact gcacaaaac caatgggtca ngntctnaga aa 292

<210> 2371  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2371

gtcgcngcac gcgtacgtaa gctcgggnatt cngctcgagg caagccccac tcaaccacca 60  
 cacctctacc tacgttcacg ctaccccttt ctgctcttct totacottta caagttttta 120  
 aagtataaag atggcagaga cattcctatt tacctacaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgaccaa atctccgatg ctgtctctga cgcttgcttc gagcaggacc 240  
 cagacagcaa agttgcctgc gaaacatgca ccaaaaccaa cttgggtca 288

<210> 2372  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2372

acgtcgctgc acgcgtacgt aagctcggaa ttcggctcga ggtgatttgg agtttggagc 60  
 gactgaacta ntcattaatt tgcacttcgc tgtttcagct tcatcaccct tcttttgcac 120  
 catttatatc tcttgagaaa tggcacaaga aacctttcta ttcacatctg aatctgtaaa 180  
 ccanggtcac cccgacaagc tgtgcgacca gatctctgat gcagtacttg atgcntgcct 240

gnncaggacc ctggacagcn aggtancctg tnagacatgc accaagacca acatggtca 299

<210> 2373

<211> 283

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2373

cgcattgcacg cgtacgtnag ctcggaattc ggctcgaggg caagccccac tcaaccacca 60

cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaaag 120

tataaagatg gcagagacat tcctatttac ctcagantcg gtgancgagg gncaccctga 180

caagctctgc gaccaaactc ccgatgctgt cctcgacgct ngcctcganc aggaccana 240

cagcnaagtt gcctncgana catgnaccaa aaccaacttg gtc 283

<210> 2374

<211> 283

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2374

gannagtgcg angcacgcgt acgtaagctc ggaattcggc tcgaggnaca gcacaaagcg 60

ggttactgtc tgttcaagct accatctctc tctctctttc ttagtgctc cttgccagaa 120

gttaaaatgg cccaagaaac ttctctattc acatctgaat cagtgaacga ggggcaccct 180

gacaagctct gtgaccagat ctccgatgct ntgctcgatg catgcttgga gcaggaccct 240

gacagcaagg ttgcctgtga aaactgcaac caagaccaan nat 283

<210> 2375

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2375

nanncgchang cacgcgtacg taagctcgga attcggctcg agctcgagcc gtggagttag 60

gagcgactga actaatcatt aatttgcaact ncgctgtttc agcttcatca cccttctttt 120

gcattcattta tatctcttga gaaatggcac aagaaacctt tctattcaca tctgaatctg 180

taaacnaggg tcaccccgac aagctgtncn accagatctc tgatgcagta cttgatgcgn 240  
gcctgancag gaccctgaca gcaagggttgc ctgtgagaca tgcaccaagn cccaacatgg 300  
tc 302

<210> 2376  
<211> 270  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2376

gcannngtnac gtaagctncg gaattcggct cgaggactta acaacagcac aaagcggggtt 60  
actgtgctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120  
aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgaa 180  
caagctctgt gaccagatct ccgatgctgt gctcgatgca tgcttggagc aggaccctga 240  
cagcaagggtt gcctgtgana cctgcaccaa 270

<210> 2377  
<211> 312  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2377

ngtcgcangc acgcgtacgt aagctcgga ttcggctcga gagaccaagc cccactcaac 60  
cancacacca ntctactctg ctcttcttct acctttcaag tttctaaagt atnaagatgg 120  
cagagacatt cctattnacc tcagagtcag tgaacnaggg acaccctgat caagctctgc 180  
gagccanatc tccgatgctg tccctgacgg cttgccttga acaggacca gacagcaagg 240  
ttgcctgcga aacatgcacc aagaccaact tggatcatggt cttcggagag atcaccncca 300  
aggccaacgt tg 312

<210> 2378  
<211> 328  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 2378

agtcgcatgc acnctgtacgt aagctcggaa tttcggctcg aggcattgtg gcaagtggac 60  
tagccagaag gtgcancncn gcaagtgtct tatgccattg gtgtgcnega ncctttgtnc 120  
tgtatttggt gacacctatg gcaccgggaa gatccatgat aaggagattc tcaacattgt 180  
gaaggagaac ttgattttcan nccccgtatg atctcccatc aaccttgatn tcaagagggg 240  
tggaataaac aggtttcttga agatgctgca tatggacatt cggcagagag ncgnattcac 300  
aggggatggt cnangcccc ccaatggg 328

<210> 2379

<211> 258

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2379

cagcacaang cnggttacng ncnngtcaag cnaccatctc tctctctctt tnttagtggc 60  
ctccttgcca gaagttaaaa tngcccaaga aactttcnta ttcacatctn aanccagtna 120  
acgaggggca ccctgacaag ctctgtganc agatcnccga tgcngtgctc gntgcatnnt 180  
tggagcanga ccctgacagc aaggttgcct gtgaaacctg naccaanacc aacatggnga 240  
ngggttcgga gagatcac 258

<210> 2380

<211> 267

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2380

gtcgcanang angcgnacgt ncagctcgga attcggctcg aggtccggta tgatctccat 60  
caaccttnga tctcaagagg ggtgggaata acaggttctt gaagactgct gcatatggac 120  
acttcggcag agaggaccct gacttcacat gggaagtggg caagcccctc aagtgggaga 180  
nggcctaagg ccattcattc cacngcaatg tgctgggagt ttttnagcgt tgcccttata 240  
atgnctatta tccataactt tccacgt 267

<210> 2381

<211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2381

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agtcnnatna acgcgtacgt aagctcggaa ttcggctcga gtacggctgc nagaagacga 60
cagaaggggg cagcgcttga tttgaggcca ggcaagcccc actcaaccac cacacctctc 120
ctcgttcacg ctaccctttt ctgctcttct tctacctttc aagttttaaa agtataaaga 180
tggcagagac attcctatatt acctcagagt cgggtgaacga gggacaccct gacaagctct 240
gcgaccaaatt ctccgatgct gtctctcgacg cttgcctcga gcaggaccca gacagcaaag 300
ttgcctgcga a 311
```

<210> 2382  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2382

```
tttgaggcca ggcaagcccc actcaaccac cacacctctc ctcgttcacg ctaccctttt 60
actgctctnc ttctaccttt caagttttta aagtataaag atggcagaga cattcctatt 120
tacctcagag tcgggtgaacg agggacaccc tgacaagctc tgcgacaaaa tctccgatgc 180
tgtctctgac gcttgctctg agcaggaccc agacagcaaa gttgcctgcg aaaca 235
```

<210> 2383  
 <211> 168  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2383

```
ncngcncgng tacnggtacg cnagctcggaa attcggctcg aggtgctggg gaccagggtc 60
acatgtttgg ctatgccact gatgaaaccc ctgaattgat gccattgagc catgttcttg 120
caacaaaact cgggtgctcgt ctcaccgagg ttcgnaagaa cggtagct 168
```

<210> 2384  
 <211> 156

<212> DNA  
 <213> Glycine max  
 <400> 2384  
 tagtgcctcc ttgccagaag ttaaaatggc ccaagaaact ttcctattca catctgaatc 60  
 agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
 atgcttggag caggaccctg acagcaaggt tgccctg 156  
 <210> 2385  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2385  
 ggccaggcaa gccccactca accaccacac ctctcctcgt tcacgctacn cctttctgct 60  
 cttctttctac ntttcaagtt ttaaaagtat aaagatggca gagacattnc ctatttacct 120  
 canagtcggt gaacgagggg caccctgaca agctctgcga ccaaattctcc gatgctgtcc 180  
 tcgacgcttg cctcgagcag gactcagaca gcaaagttgc ctgcgaaaca tggcaccaan 240  
 accaattggt catggtcttc ggagaatcac gnccaagg 278  
 <210> 2386  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2386  
 gtcgcangca cgcgtacgtn agctcggnat tcggctcgag ggccaggcaa gccccactca 60  
 accaccacac ctctcctcgt tcacgctacc cctttctgct cttctttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgaggggac 180  
 accctgacaa gctctgcgac caaatctccg atgctgtcct tcgacgcttg cctcgagcag 240  
 gaccagaca gcaaagttgc ctgcgaaaca tgcaccaa 278  
 <210> 2387  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2387

nngtcgcang cacgcgtacg taagctcggga attcggctcg agtacggctg cnagaagacg 60  
 acagaagggg gcagcgcttg atttgaggcc aggcaagccc cactcaacca ccacacctct 120  
 cctgcgttca gctacccctt tctgctcttc ttctaccttt caagttttaa aagtataaag 180  
 atggcagaga cattcctatt tacctcagag tcggtgaacg agggacaccc tgacaagctc 240  
 tgcgacaaa tctccgatgc tgtcctcgac gcttgctcgc agcaggaccc agacagcaaa 300  
 gttgcctgc 309

<210> 2388  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<400> 2388

gctcgggaatt cggctcgagc acaaagcggg ttactgtctg ttcaagctac catctctctc 60  
 tctctttctt agtgccctct tgccagaagt taaaatggcc caagaaactt tcctattcac 120  
 atctgaatca gtgaacgagg ggcaccctga caagctctgt gaccagatct ccgatgctgt 180  
 gctcgatgca tgcttggagc aggaccctga cagcaagggt 219

<210> 2389  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2389

gngtacgtna gctcgggaatt cggctccgag ngatttgagg ccaggcaagc cccactcaac 60  
 caccacacnt ctctcgttc acgtacccc tttctgctct tttctacct ttcaagtttt 120  
 aaaagtataa agatggcaga gacattccta ttacctcag agtcggtgaa cgagggacac 180  
 cctgacaagc tctgcgacca aatctccgat gctgtcctcg acgcttgctt cgagcaggac 240  
 ccagacagcn aagttgcctg cgaaactgca ccaaaaccaa tnggtcagggt cttcgggaat 300  
 cngacaagcc acgt 314



<210> 2390  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2390

ggaannntcg cangcacgcg tacgtnagct cggaattcgg ctcgagnact taacaacagc 60  
 acaaagcgagg ttactgtctg ttcaagctac catctctctc tctctttctt agtgcctcct 120  
 tgccagaagt taaaatggcc caagaaactt tcctattcac atctgaatca gtgaacgagg 180  
 ggcacctgac aagctctgtg accagatctc cgatgctgtg ctcgatgcat gttggagcag 240  
 gacctgacag caaggttgcc tgtgaaacct gcaccaagac caanatg 287

<210> 2391  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2391

annantcgca ngcacgcgta cgtnagctcg gaattcngct cgagggccag gcnagcccca 60  
 ctcaaccacc acacnactcc tcnttcncgc tacccttttt ctgcnentct tctacctttc 120  
 aagtttttaa agtatanaga tggcagagac attcctatctt acctcagagt cgggtgaacga 180  
 gggacaccct gacaagctct gcgaccaaatt ctccgatgct gtgcttcgac gcttgccctcg 240  
 agcaggacnc agacagcaaa gttgcctgcg aaacatgcac c 281

<210> 2392  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2392

gtcgcatgca cgcgtacgta agctcggaat tcggctcgag caggcaagcc ccaactcaacc 60  
 accacacctc tctctgttca cgctaccctt ttctgtcttt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag acattcctat ttacctcaga gtcggtgaac gaggacaccc 180  
 tgacaagctc tgcgacaaa tctccgatgc tgtcctcgac gcttgcntcg agcaggaccc 240

agacagcaaa gttgcctgcg aaacatgcag caaaa 275

<210> 2393  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2393

tcgcatgcac gcgtacgtaa gctcggaatt cggctcgagt acggctgcga gaagaccaca 60  
 gaagggggca gcgcttgaga ccaagcccca ctcaaccacc acaccactct ctctgctctt 120  
 cttctacctt tcaagttttt aaagtattaa gatggcagag acattcctat ttacctcaga 180  
 gtcagtgaac gagggacacc ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga 240  
 cgcttgccctt gaacaggacc cagacagcaa ggttgctgga aacatgnana agnccatntg 300  
 ggt 303

<210> 2394  
 <211> 189  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2394

cgtaagctcg gaattcggct cgaggtttca acaccttaat ttgcacacgc tgctttcttca 60  
 gcttgagaaa tggcacaaga nacctttcta ttcacatctg aatctgtaaa cgaggggtcac 120  
 cccgacaagc tgtgcgacca gatctctgat gcagtgctcg atgcgtgcct tgaacaggac 180  
 cctgacagc 189

<210> 2395  
 <211> 183  
 <212> DNA  
 <213> Glycine max  
 <400> 2395

gctgcacgcg tacgtaagct cggaattcgg ctogagctca agtttttgaa gtatagagat 60  
 ggcagagaca ttctatttta cctcagagtc agtgaacgag ggacaccctg acaagctctg 120  
 tgaccaaate totgatgctg tctcgacgc ttgcctcgaa caggaccag acagcaaggt 180

tgc

183

<210> 2396  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2396

gtcgcangca cgcgtacgtn nagctcggna ttcggctcgn ccctcgagcc gaattcggct 60  
cgagcaagcc ccaactcaacc accacaccnc tcctcgttca cgcacncccc tttctgctct 120  
tcttccacct ttcaagtttt aaaagtataa agatggcaga gacattcctt ttacctcaga 180  
gtcgggtgaac gagggacacc ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga 240  
cgcttgcttc gagcaggacc cagacagcaa agttgcctgc gaaacatgca cc 292

<210> 2397  
<211> 271  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2397

gtcgcangca cgcgtacgtn agctcggnaa ttcggctcga gngatttgag gccaggcaag 60  
ccccactaca accaccacac ctctcctacg ttcaagctac ccctttctgc tcttcttcta 120  
cctttcaagt tttaaaagta taaagatggc agagacattc ctatttacct cagagtcgggt 180  
gaacgagggg caccctgaca agctctgcga ccaaattctcc gatgctgtcc tcgacgcttg 240  
cctcgagcag gaccagaca gcaaagttgc c 271

<210> 2398  
<211> 287  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2398

cncgcgtacg taagctcgga attcgnctcg aggcagactt tcacaacagc acaaagcggg 60  
ttactgtctg ttcaagctac catctcgtctc tcgctttctt agtgctctct tggccanaag 120  
tnaaaatggc ccaagaaact tncctattca catctgaatc agtgaacgag gggcacctg 180

acaagctctg tgaccagatc tccgatgctg tgctcgatgc atgtcttgga gcaggaccct 240  
gacancaagg ttgcctgtga aactgcacca agaccaacat ggtgatg 287

<210> 2399  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2399

gcangcncgc gtncgtgagc tcggnnttng gctcgnnggc caggcaagcn ccactcancc 60  
accacacctc tntcgtttca cgctaccctt ttctgctctt cttctacctt tcangtttta 120  
anagtataaa gntggcagag acnttcctnt ttncctcaga gtcggtgaac gagggacacc 180  
ctgacaagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgcgtc gagnanggac 240  
cnagacngca agttgcctgg gaaacatgca ccaggaccaa tttggtaatg gtctcgggaa 300  
aatcgng 307

<210> 2400  
<211> 291  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2400

ngtcgctgca cgcgtacgta agctcggaat tcggctcgag gacttaacaa cagcacaaaag 60  
cgggttactg tctgttcaag ctaccatctc tctctctctt tcttagtgcc tccttgccag 120  
aagttaaaat ggccaagaa actttcctat tcacatctga atcagtgaac gaggggnacc 180  
ctganaagct cngngacnng nnntcngngn tngngnncngn gnangctnga gganggccct 240  
nacagcaagg ttgcctgtga aacctgcacc aagaccaaca tggatgatggt t 291

<210> 2401  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2401

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gggccaggca agccccactc 60  
aaccaccaca cctctcctcg ttcacgctac ccctttctgc tcttcttcta cctttcaagt 120  
tttaaaagta taaagatggc agagacattc ctatttacct cagagtcggt gaacgagggga 180  
caccctgaca agctctgcga cccaaatctc cgatgctgtc ctcgacgctt gncctcgagc 240  
aggaccaga cagcaaagtt gcctgcgaaa catgcaccaa aaccaacttg gtcatggtct 300  
tcgg 304

<210> 2402  
<211> 302  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2402

anncangngt acgttagctc ggaattcggg tcgagnacna cagnacaatg cgggttactg 60  
tctgttcaag ctaccatcta ctctctcact ttcttaacngc ctccttggcc agaagttaaa 120  
atgacccaag aatctttcct agtcacatct gaatcagcga acgagngca ccctgacaag 180  
ctccgtgacc agatctccga tgctgtgccc gatgcatnct tggagcagga cccnacagca 240  
agtttgcttg ttaaacctgt nccaagacca acatggtgat ggtttgggaa anatcacaac 300  
cn 302

<210> 2403  
<211> 289  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2403

gtcgcangca cgcgtacgta agctcggat tcggctcgag cacctctcct cgttcacgct 60  
acccctttct gctcttcttc tacctttcaa gttttaaaag tataaagatg gcagagacat 120  
tcctatttac ctcagagtcg gtgaacngn gacaccctga caagctctgc gaccaaactc 180  
ccgatgctgt cctcgacgct tgccctgagc aggaccaga cagnaaagnt nccngcgaaa 240  
canntacca aaaccaacnt ngnnanngnc atnggagaaa ncacgacca 289

<210> 2404

<211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2404

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nnnanaacct tanaagtcgc angcacgcgt acgtaagctc ggaattcggc tcgaggctgc 60
gagaagacga cagaaggggg cagcgcttga tttgaggccg ggcaagcccc actcaaccac 120
cacacctctc ctcggttcacg ctaccccttt ctgctcttct tctacctttc aagttttaaa 180
agtataaaga tggcagagac attcctatth acctcagagt cggatgaacga gggnnaccct 240
gacaagctct gcgaccaaht ctccgatgct gtctctgacg cttgcctcga gcaggaccca 300
gacagcaaag ttgcct 316
```

<210> 2405  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2405

```
cgtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gntttggagt ttggagcgac 60
tgaactaatc attaatthgc actcgctgth tcagcttcat gcacccttct tttgcatcat 120
ttatatctct tgagaaatgg cacaagncac ctttctattc acatctgant ctgtaaacga 180
gggtcacccc gacatgctgt ncgaccagat ctctgatgca gtacttgatg cgtgccttga 240
acaggaccct gacagcaagg ttgn 264
```

<210> 2406  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2406

```
nctagcacnc gtacgtaagc tcgggaattc anctcgannq caagccccac tcaaccacca 60
cacctctcct cgttcacgct acccctthct gctcttcttc tacctthcaa gttthaaaag 120
tataaagatg gcagagacat tcctatthac ctcaagatcg gtgaacgagg gacaccctga 180
caagctctgc gaccaahtct gccgatgctg tcctgcgacg cttgcctcga gcaggaccca 240
```

gacagcaaag ttgcctggcg aaacatgtac caaaaccaac ttggtcatgg tnttcggaga 300  
aatcacga 308

<210> 2407  
<211> 331  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2407

tgcttgacg cgtacgtaag ctcggaattc ggctcgaggt tgagaccaag acacactcgt 60  
tcatatatct ctntctgtct tctcttctt ctacctctca agtttttgaa gtataaagat 120  
ggcagagaca ttcctattca cctcggagtc agtgaacgag ggacaccctg ataagctctg 180  
cgaccaaadc tcgatgctgt cctcgacgct tgcctcgaac aggaccagat cagccangtt 240  
gcctgcgnaa acatgcacca agaccaattg gtcattggtct tcggagagat caccaccagg 300  
gccangntga cnncaagatc gtgcgtnaca c 331

<210> 2408  
<211> 321  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2408

agtcgcaggg acgcgtacgt aagctcggna ntcggctcga ggcaagcccc actcaaccac 60  
cncanc<sup>3</sup>gntc ctcgtnnac gctacccctt tctnggtctt ctntacctt tcangtttta 120  
aaagtntaaa gatggnagag acattcctat ttacctcaga gtcggtgaac gagggacacc 180  
ctgagaagct ctgcgaccaa atctccgatg tgtcctcgac gcttgctcgc agcaggaccc 240  
agacagcaaa gttgcctgcg aaacatgcac caaaaccaat tggnnaggtc ttcggagaat 300  
caggacaagg ccaaggtgan t 321

<210> 2409  
<211> 242  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 2409

ngcacgcgta cgtaagctcg gaattcggct cgaggcagac ttaacaacag cacaaagcgg 60

gntactgtct gttcaagcta ccattctctct ctctctttct tagtgctctc ttgccagaag 120

ttaaaatggc ccaagaaact ttctatttca catctgaatc agtgaacgag gggcaccctg 180

acaagctctg tgaccagatc tccgatgctg tgctcgatnc atgcttggag caaggccctg 240

ac 242

<210> 2410

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2410

catgcacgcg tacgttagct cggaattcgg ctcgaggggt tactgtctgt tcaagctacc 60

atctctctct ctctttctta gtgcctcctt gccagaagta aaatggccca agaaactttc 120

ctattcacat ctgaatcagt gaacgagggg caccctgaca agctctgtga ccagatctcc 180

gatgctgtgc tcgatgcatg cttggagcag gacctgaaag naaggttcct gtnaanttgc 240

acaancccaa tgggggggnt tttgggnagn ncccacagng gggggggggn 289

<210> 2411

<211> 239

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2411

cagtcgcang cacgcgtacg taagctcgga attcggctcg agcaacagca caaagcgggt 60

tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120

aaaatggccc aaganacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac 180

aagctctgtg accagatctc cgatgctgtg ctgatgcat gcttggagca ggaccctga 239

<210> 2412

<211> 249

<212> DNA

<213> Glycine max



```
<223>      unsure at all n locations
<400>      2412
```

catgcacgcg	tacgtnanct	cggnattcgg	ctcgagcatt	tgggagttag	gttctgcacg	60
ctctgcttcc	agcgagtgtt	ctttcttcgt	ttcaacacct	taatttgcac	acgctgcttc	120
ttcagcttga	gaaatggcac	aagaaacctt	tctattcaca	tctgaatctg	taaacgaggg	180
tcaccccgac	aagctgtgcg	accagatctc	tgatgcagtg	ctcgatgcgt	gccttgaaca	240
ggaccctga						249

<210>	2413
<211>	121
<212>	DNA
<213>	Glycine max

<400>            2413

tgtggcaagt	ggactagcca	gaaggtgcat	tgtgcaagtg	tcttatgcca	ttggtgtgcc	60
cgagcctttg	tctgtctttg	ttgacaccta	tggcaccggg	aagatccatg	ataaggagat	120
t						121

<210>	2414
<211>	273
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      2414
```

tctnatgcac	gcgtacgtaa	gctcgggaatt	cggctcagagg	ccatttgggga	gttaggttct	60
gcacgctctg	cttcacagcga	gtgtttctttc	ttcgttttcaa	caccttaatt	tgcacacgct	120
gcttcttcag	cttgagaaat	ggcacaagaa	acctttctat	tcacactgaa	tctgtaaacg	180
agggtcaccc	cgacaagctg	tgcgaccaga	tctctgatgc	agtgcctgat	gcgtgccttg	240
aacaggaccc	tgacagcaag	gttgctgtg	aga			273

<210>	2415
<211>	314
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      2415
```

gcangcacgc gtacgtaagc tcggaattcg gctcgaggca aaggagtgat ttggagtttg 60  
gagcgactga actaatcatt aatttgcact cgctgtttca gcttcatcac ccttgctttt 120  
gcatcattta tatctcttga gaaatggcac aagaaacctt tctattcaca tctgaatctg 180  
taaacnaggg tnaccccgac angcnntncg anccagatct ctgatgcagt acttgatgcg 240  
tgccttgaac aggnccctga cngcaagggt ccctggnaga catgcaccag ggccnaacag 300  
ggtaagggnc ttgg 314

<210> 2416  
<211> 295  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2416

cgtcgcangc acgcgtacgt nagctcggnn ttcggtcga nctcgagccg aatcggtcgc 60  
agtgaggcca ggcaagcccc actcaancac cacacttctc ctenttcacg ctaccccttt 120  
actnctcttc ttctaccttt caagttttaa aagtataaag atggcagaga cattcctatt 180  
tacctcagag tcggtgaacg agggacaccc tganaagctc tgcgaccana tctccgatgc 240  
tgtcctcgac gttgcctcga gcaggaccca gacagcaaag ttgcctgcga aacat 295

<210> 2417  
<211> 250  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2417

ggccaggcna gcccactca accaccacac ntctncctcg ttcacgtac ccctttctgn 60  
ctcttcttct acctttcatg ttttaaaagt ataaagatgg cagagacatt cctatittacc 120  
tcagagtcgg tgaacgaggg acancctgac aagctctgcg accaaatctc cgatgctgtc 180  
ctcgacgctt gcncgagcag gacccagaca gcaaagttgc ctgngaaaca tgcnaaaaa 240  
accaanttgg 250

<210> 2418  
<211> 206

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2418

attaacttgg accttaagag ggggtggcat aggttcctca agacagctgc ttanggacac 60  
 tttggaaggg atgatgcaga cttcacctgg gaagttgtga agccactcaa gtcagagaag 120  
 cctcaagctt aagagtgttg ttaagttaat cactcccttc agtggatgtc ttgctgggtg 180  
 tggatgaata atttgcgtgt ttcatg 206

<210> 2419  
 <211> 152  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2419

nttcgcangc acgcgtacgt aagctcggaa ttcngctcga ggaaactttc ctattcacat 60  
 ctgaatcagt gaacgagggg caccctgaca agctctgtga ccagatctcc gatgctgtgc 120  
 tcgatgcatg cttggannag gaccctgaca gt 152

<210> 2420  
 <211> 319  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2420

gtctcntgca cgcgtacgta agctcggaat tcgntcgag gtttttgaag tatagagatg 60  
 gcagagncat tcctatttac ctcagantcn gtgaacgagg nacncctgn cangctgctg 120  
 gtgaccaa at ctctgatgcn gtcctcgacg cttgcctcga acaggacnca nacancangg 180  
 ttgcctggng aancatgcac caaaaccaac ttggtccatg gtcttcggag aaatcacgac 240  
 caaggccnat gttgactacg agaagatagt gcgtgncacc tgcagagcnt cggctttgtg 300  
 ctcaaacgat gtgggatgg 319

<210> 2421  
 <211> 262  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 2421

gcagacttaa caacagcaca aagcnggtta gtgtctgttc aagctaccat ctctctctct 60  
 gctttcttag tgcttccttg ccagaagtta aaatggccca agaaactttc ctattcacac 120  
 ctgaatcagt gnacgagggg caccctgaca agctctgtga ccagatctcc gatgctgtgc 180  
 tcgatgttgc ttggagcagg accctgacag caaggttgcn ngnaannnct gcaccangac 240  
 aagnnnggtt ttgttgncag ac 262

<210> 2422  
 <211> 231  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2422

gttgacgcg tacgtaagct cggaattcgg ctcgaggcag acttaacaac agcacaaaagc 60  
 gggttactgt ctgttcaagc taccatctct ctctctcttt cttagtgcct ccttgccaga 120  
 agttaaaatg gcncaagaaa ctttcctatt cacatctgaa tcagtgaacg aggggcaccc 180  
 tgacaagctc tgtgaccaga tctccgatgc tgtgctcgat gcatgcttgg a 231

<210> 2423  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2423

ctaattgcacg cgtacgttag ctcggaattc ggctcgaggt gatttggagt ttggagcgac 60  
 tgaactaatc attaatttgc actcgctgtt tcagcttcat cacccttctt ttgcatcatt 120  
 tatatctctt gagaaaatggc acaagaaacc tttctattca catctgaatc tgtaaacgag 180  
 ggtcaccctg acangctgtn cnaccagatc tctgatgcag tacttgatgc gtgccttgan 240  
 caggaccc 248

<210> 2424  
 <211> 322

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2424

tcgcaggcac gcgtacgtaa gctcgggaatt cggctcgagn cagacttaac aacagcacia 60  
 agcgggttac tgtctgttca agctaccatc tctctctctc ctttcttagt gcctccttgc 120  
 cagaagttaa aatggcccaa gaaactttcc nattcacatc tgaatcagtg aacgagggggc 180  
 accctgaaca agctctgtga ccagatnctc cgatggctgt gctcgatgnc atgcttggag 240  
 caggaccctg acagcaaggt tgcctgtgaa acctgcacca ggaccaacat ggtgatgggt 300  
 ttcgagagat cacaaccaag gc 322

<210> 2425  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2425

tcgcangcac ncgtacgtna gctcgggaatt cggctcgagn ngccaggcaa gccccactca 60  
 accaccacac ctctcctcgt tcacgctacc cttttctgct cttctttctac ctttcaagtt 120  
 ttaaaagtat aaagatggca gagacattcc tatttacctc agagtcggtg aacgagggac 180  
 accctgacaa gctctgagac caaatctccg atgctgtcct cgacgcttgc ctgagcagg 240  
 acccagaaca gcaaagttgc ctgcgaaact ggcaccaaca ccaattggtc atggtcntcg 300  
 gagaaatcnc gaccagg 317

<210> 2426  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2426

angcacgcgt acgtaagctc ggaattcggc tcgagcggct gcgagaagac gacagaaggg 60  
 ggcagcgctt gatttgaggc caggcaagcc ccacttcaac caccacacct ctctcgttc 120  
 acgctacccc tttctgctct tctttctacct ttcaagtttt aaaagtataa agatggcaga 180

gacattccta tttaacctcag agtcggtgaa cgagggacac cctgacaagc tctgcgacca 240  
aatctccgat gctgtcctcg acgcttgccct cgagcaggac ccagaca 287

<210> 2427  
<211> 347  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2427

cncccnang tcgcatgcac gcgtacgtaa gctcggaatt cggctcgaga cggctgcna 60  
gaagacgaca gaagggggca gcgcttgatt tgaggccagg caagccccac tcaaccacca 120  
cacctctcct cgttcacgct acccctttct gctcttcttc tacctttcaa gttttaaag 180  
tataaagatg gcagagacat tcctatttac ctgagatcg gtgaacgagg gacaccctga 240  
caagctctgc gaccaaattc ccgatgctgt cctcgacgct tgcctcgagc aggacccaga 300  
cagcaaattg cctgcgaaac atgcaacaaa aacaanttgt canggnc 347

<210> 2428  
<211> 288  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2428

gntcangcac gcgtacgtaa gctcggaatt cngctcgagc annagcataa agcgggttac 60  
tgtctgttca agctacncat ctctctctct cttncttagt gcctccttnc cagaagttan 120  
natggcccaa gaaactttcc tattcacatc tgaatcagtg aancgagggg caccctgaca 180  
agctctgtga ccagatctcc gatgctgtgc tcgatgcatg cttggagcag gangngacag 240  
canggttgcc tgtgaaacct gcaccaagan caacatggtg atgnnttt 288

<210> 2429  
<211> 226  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2429

ctgcacnagt acgttagctc ggcacncggc tccactnaac caccacacct cncctcgtt 60

cacgctaccc ctttctgctc ttnccttctac ctttccaagt tttaaaagtn taaagatggc 120  
agagacattc ctatttacct cagagtcggt gaacgagggg caccctgaca agctctgcga 180  
ccaaatctcc gatgctgtcc tcgacgcttg cctcgagcag gaccca 226

<210> 2430  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 2430

gcacgcgtac gtaagctcgg aattcggctc gactacggct cgagaagacg acagaagggg 60  
gcacgcgcttg atttgaggcc aggcaagccc cactcacacc accacacctc tcctcgttca 120  
cgctacccct ttctgctctt cttctacctt tcaagtttta aaagtataaa gatggcagag 180  
acattcctat ttacctcaga gtcggtgaac gagggacacc ctgacaagct ctgcgaccaa 240  
atctccgatg ctgtcctcga cgcttgccctc gagcaggacc cagacag 287

<210> 2431  
<211> 164  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2431

gcgtangtaa gctcgggaatt cggctcgagg tcatatgttc ggctatgcna ctgacgagac 60  
tcccagctc atgcccttga gccatgtcct tgccacgaag ctcggtgcna agctcancga 120  
ggttcgggaan aacggganat gcccttggt ganncctnnt ggca 164

<210> 2432  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2432

gtcgcangca cgcgtacgta agctcggaat tcggctcgag nccatttggg agttagggttc 60  
tgcacgctct gcttccagcg agtggtcttt cttcgtttca acaccttaat ttgcacacgc 120  
tgctttcttca gcttgagaaa tggcacaaga aacctttcta ttcacatctg aatctgtaaa 180

cgaggggtcac cccgacaagc nnncgaccag atngcnnang cagtgcgcga ngngngnnt 240  
 nnacaggacc cngncagcaa ggcngnctgn nagacangca ncaagaccaa ca 292

<210> 2433  
 <211> 97  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2433

ccaagaccaa catggtcatg gtctctggag anctcacaac caaggccacc gtagactang 60  
 agaagattgt ccgtgacaca tgccgcgaaa ntggata 97

<210> 2434  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2434

catgcacgcg tacgtaagct cggaattcgg ctcgagtagc gctgcgagaa gacgacagaa 60  
 gggggcaccg cttgagcaga cttaacaaca gcacaaagcg gggttactgtc tgttcaagct 120  
 accatctctc tctctctttc ntagtgctcc ttgccagaag ttaaaaatgg cccaagaaac 180  
 tttcttattc acatctgaat cagtgaacga ggggcacctg acaagctctg tgaccagatc 240  
 tccgatgctg tgctcgatgc atgcttggag caggacctga cagcaagggtt gctgtgaaac 300  
 ctgcaccaan 310

<210> 2435  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2435

nagtcgcang cacgcgtacg taagctcgga attcggctcg agacggctgc nagaagacga 60  
 cagaaggggg cagcgcttga tttgaggcca ggcaagcccc actcaaccac cacacctctc 120  
 ctcgtnacag ctaccccttt ctgctcttct tctacctttc aagttttaaa agtataaaga 180



tggcagagac attcctatitt acctcagagt cggatgaacga gggacaccct gacaagctct 240  
 gcgaccaaatt ctccgatgct gtcctncgac gcttgccctcg ancaggaccc agacagcaaa 300  
 gttgcc 306

<210> 2436  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2436

actncgcatg cagcgcgtacg taagctcgga attcggctcg agttgaggcc aggcaagccc 60  
 cactcaacca ccacacctct cctcggttcac gctacccctt tctgctcttc ttctaccttt 120  
 caagtttttaa aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg 180  
 agggacaccc tgacaagctc tgcgaccaaa tctccgatgc tgcctcgcac gcttgccctcg 240  
 anggcccaaga cagcaagntt gcctgcgaaa catncnnc 278

<210> 2437  
 <211> 315  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2437

gcacgcgtac gtaagctcgg aattcggctc gagattttctt cccatccttt cttccttcac 60  
 cactttgaac ttgaacttag ttgggggact tggtgagtt agactgtnat gtttaaattg 120  
 tagtcatggt ggtgtttttg gctgtgaatt tgctcatatg tgctaattat gtgttcttgt 180  
 ttgatgttac tctacagaag ttaaaatggc ccaagaaact ttctatttca catctgaatc 240  
 agtgaacgag gggcaccctg aacaagctct gtgaccagat ctccgatgct gtgctcgatg 300  
 catgcttga gcagg 315

<210> 2438  
 <211> 121  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2438

attaacttgg accttaagag ggggtggcat aggttctca agacagctgc tnatggacac 60  
 tttggaaggg atgatgcaga cttcacctgg gaagttgtga agccactcaa gtcagagang 120  
 c 121

<210> 2439  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2439

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag caggcaagcc ccaactcaacc 60  
 accacacctc tctcgttca cgctaccctt ttctgctctt cttctacctt tcaagtttta 120  
 aaagtataaa gatggcagag anattcctat ttacctcaga gtcggtgaac gagggacacc 180  
 ctgacaagct ctgcgancca aatctccgat gctgtcctcg acgcttgctt cgagcaggnc 240  
 ccagacagcc aaagttgcct gcgaaacang cagcnaaacc aacttggtc 289

<210> 2440  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2440

cntcangnac gcgtacgtaa gctcgggaatt cgggctcgag nttgaggcca ggcaagcccc 60  
 actcaaccac cacacctctc ctggttcacg ctaccctttt ctgctcttct tctacctttc 120  
 aagtttttaa agtataaaga tggcagagac attcctattt acctcagagt cgggtgaacga 180  
 gggacaccct gacaagctct ggggaccaaa tctccgatgc tgtcctcgac gcttgccntn 240  
 gagcaggacc cnganagcaa antngcttgg gaaanttgcn caaaaaccat ttgggttnngg 300  
 gtntgngnaa 310

<210> 2441  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 2441

angcacnggt acgttagctc ggaattcggc tcgagcttaa caacagcaca aagcgggtta 60  
ctgtctgttc aagctaccat atctctctct ctnttcttag tgcctncctt gccanaagtt 120  
aaaatgggcc ntgaaacttt ccnattcaca tntnnatcag tgaacgaggg gcaccccgac 180  
aagctctntn atagatcngg gtngncagtg ctagatgnat gnttggagca ngancctnan 240  
agcnaggntn cctgtgaaac cnggcacna gaccaacatg gtn 283

<210> 2442

<211> 240

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2442

tgaggccagg caagccccac tcaaccacca canatnantic ctggttncac gctacccctt 60  
tctncctctt cttctacctt tcangtttta anagtataaaa gatggcagag acattcctat 120  
ttacctcaga gtcggtgaag agggacaccc tgacaagctc tgcgacaaaa tctccgatgc 180  
tgtcctcgac gcttgccctg agcaggaccc agacagcaaa gttgntggaa acatgcacca 240

<210> 2443

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2443

tcgcatgcac gcgtacgtaa gctcggaatt cggtcagagg gtttttgaag actgctgcct 60  
atggacactt tggaagagaa gacctgact tcacatggga agtgggtcaaa ccctcaagt 120  
gggagaaggc ctaagtaant cattccactg ctctatgctg gaagtttttt gagcgttgcc 180  
cttataatat gtctaataat cataactttc cactgtctct acnctgtgtg tttctctcct 240  
cttctctcta ttttgttatt tgtatgttct tttgtaattt ttacgtgatc aactaa 296

<210> 2444

<211> 287

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 2444

gtcgcangca cgcgtacgta agctcggaat tccgctcgag ngtgccata ggttcctcaa 60  
 gacagctgct tatggacact ttggaaggga tgaccctgac ttcacctggg aagttgtgaa 120  
 gccactcaag tctgagaagc ctcaagctta agattgttgt gaagttaatc actcccttca 180  
 atggatgtct tgctaggtgt ggatgaataa tttgctgttt ccatgactac tactacttca 240  
 ttcataagtc taatgtcatc tcatacaatac ttaaactgtt tttttttt 287

<210> 2445  
 <211> 185  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2445

agcagactta acaacagcac aaagcgggtt actgtctgtt caagctacca nnnnnnnnnn 60  
 nnnnnnnntag tgcctccttg ccagaagtta aaatggccca agaaaactttc ctattcacat 120  
 ctgaatcagt gaacgagggg caccctgaca agctctgtga ccagatctcc gatgctgtgc 180  
 tcgat 185

<210> 2446  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2446

ngtcnatgca cgcgtacgta agctcggaat tccgctcgag gtinggttct gcacgctctg 60  
 cttccagcga gtgtttcttc ttcgtttcaa cacttanat ttgcacacgc tgctttctca 120  
 gcttgagaaa tggcacaaga aacctttcta ttcacatctg aatctgtaaa cgaggggtcac 180  
 cccgacaagc tgtgcgacca gatctctgat gcagtgtctg atgcgtg 227

<210> 2447  
 <211> 98  
 <212> DNA  
 <213> Glycine max

<400> 2447

ccttttcagg gaaggaccct accaagggttg acagaagtgg tgcctatatt gtaaggcagg 60  
 ctgcaaagag tgtcgtggca aatggccttg ctagaagg 98

<210> 2448  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2448

gtcgngcac gcgtacgtna gctcggaatt nggctcgagc tcgagccgca acagcacaaa 60  
 ggggttact gtctgttcaa gctaccatct ctctctcact ttcttngtgc ctccttgcca 120  
 gangttanna tggcccaaga aactttccta ttcacatctg aatcagtga cgaggggcac 180  
 ncnnnacaag ctctgtgacc agatctccga tgctgtgcta cgatgcatgc ttggagcang 240  
 naccctgaca gcnaagttgc ctgtgaaacc tggcaccaag ancaacatgg tgatggtttt 300  
 cgga 304

<210> 2449  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2449

gtcgcatgca cgcgtacgta agctcggaat tcggctcgag gtgatttgga gtttgagcgc 60  
 actgaactaa tcnttanttt gcactcgctg tttcagcttc atcacccttc ttttgcac 120  
 tttatatctc ttgagaaatg gcacaagaaa cctttctatt cacatctgaa tctgtaaacg 180  
 agggtcaccc cgacangctg tgcgaccaga tctctgatgc agtacttggn gcgngcctna 240  
 aaggnccca ncancaaggt cgcctg 266

<210> 2450  
 <211> 159  
 <212> DNA  
 <213> Glycine max  
 <400> 2450

tcggaattcg gctcgagaac agcacaaagc gggttactgt ctgttcaagc taccatctct 60

ctctctcttt cttagtgcct ccttgccaga agttaaaatg gccaagaaa ctttcttatt 120  
cacatctgaa tcagtgaacg aggggcaccc tgacaagct 159

<210> 2451  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2451

gtcgcangcn ngcgtnacgn nnagctcggn attcggtcgc agccaagccc cactcaacca 60  
ccanaccact ctctctgctc ttcttctacc tttccaagtt tntaaagtat taagntggca 120  
gagacantcc nanntanctc agagncngng nangngggnc ancctgncan gcgctncgac 180  
naatctncga tgtgtcctcg acgcttgccct tgaacaggac ccagacagca aggttgccctg 240  
cgaaacatgc accaaganca attggtcatg gtcttcggag agatcacca 289

<210> 2452  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2452

gtcgcacgca cgcgtacgtn agctcggaat tcggctcgag ctgcagccgc tccaccaaac 60  
acgacgagac tgccaccaat gangaaattg ntgntgacct tcaaanagca tgtgatcaan 120  
cctgngatnc cngngaantn nctnatnagn agnncanttt ccnattngaa ccnttaaggc 180  
ggtttgcaa tggttggccn nnaggggcna ngctgggtct ccggggncga aaagancctt 240  
atncggatat ttagngngna nggggtgccc atgggggtgg tgnttcnccg ggan 294

<210> 2453  
<211> 181  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2453

gnngctgcac gcgtacgtna gctcggaatt cggctcgagt aacaacagca caaagcgggt 60

tactgtctgt tcaagctacc atctctctct ctctttctta gtgcctcctt gccagaagtt 120  
 aaaatggccc aagaaacttt cctattcaca tctgaatcag tgaacgaggg gcaccctgac 180  
 a 181

<210> 2454  
 <211> 268  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2454

gtcgcacatgca cgcgtacgta agctcggaaat tcggctcgag tgggagttag gttctgncac 60  
 gctctgcttc cagcgagtgt tctttcttcg tttcaacacc ttaatttgca cacgctgctt 120  
 cttcagcttg aggaatggca caagaaacct ttctnttcac atctgantct gtanacgang 180  
 gtcaccccga caagntgtgc gaaccagatn ctctgatggc agtgctcatg cgtgcgctga 240  
 ncaggaccct gacagcaagg ttgcctgn 268

<210> 2455  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2455

cntcgcangc acgcgtacgt gagctcggaa ttcggctcga gcaggcaaan cccacncaac 60  
 cgncanangg aaaaaacgaa ngcgcnaccc cattcngctc ntcttcnacc tnnangann 120  
 naagagnnta aagatggcag agacattcct atttacctca gactacgggtg aacgagggac 180  
 accctgacaa gctctgcgan ccaagtctcc gatgctgtcc tcgncgcttg cctcgagcag 240  
 gacccagaca gcaaagttgc gcagcganac atgcancaag ncgnattggn ccatggtt 298

<210> 2456  
 <211> 154  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2456

caccancagc aaacaannaa naagtcgcat gcacgcgtac gtaagctcgg aattcngctc 60

gaggggaaga cccaagtac cggtgagtat tacaatgaca atggtgccag gggttcctatt 120  
 ccgtgtacac accgtgctaa tttccacaca acat 154

<210> 2457  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2457

cgtcgcangc acgcgtacgt aagctcggna ttcggctcga gcacaaagcg gggttactgtc 60  
 tgttcaagct accatctctc tctctctttc ttagtgccctc cttgccagaa gttaaaatgg 120  
 cccaagaaac tttcctattc acatctgaat cagtgaacga ggggcaccct gacaagctca 180  
 gagaccagaa nancgangcn gngcacgacg caagtccttg agcaggaccc agtacagcaa 240  
 ggnnnncagt gnaaccngta ccaagaccaa caggtgatgg tcct 284

<210> 2458  
 <211> 213  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2458

gtcncangca cacgtacgta agctcggaat tcnnctcgag ncaagcccca ctcaaccacc 60  
 acacctctcc tegtacacgc tacccttttc tgctcttctt ctanctttca agtttttaaaa 120  
 gtataaagat ggcagagaca ttcctattta cctcagagtc ggtgaacgag ggacaccctg 180  
 acaagctctg cgaccaacan ctccgatgct gtc 213

<210> 2459  
 <211> 217  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2459

gtngcatgca cgcgtacgtn agctcggaat tcggctcgag caacagcaca aagcgggtta 60  
 ctgtctgttc aagctacnt ctntctctct ctttcttagt gcctccttgc cagaagttaa 120



aatggnccaa gaaactttcc tattcacatc tgnatcagtg ancgangggc accctgacaa 180  
gctctgtgac cagatctccg atgctgtgct cgntgca 217

<210> 2460  
<211> 233  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2460

ctangcacgc gtacgtnagc tcggaattcg gctcgagcag caaaggagtg atttggagtt 60  
tggagcgact gaactaatca ttaatttgca cttcgctgtt tcagcttcat cacccttctt 120  
ttgcatcatt tatactctctt gagaaatggc acaagaaacc tttctattca catctgaatc 180  
tgtaaacgag ggtcaccccg acangctgtg cgaccagatc tctgangnag nat 233

<210> 2461  
<211> 202  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2461

gncgcangca cggttacgta agctcggaat tcggctcgag gggcaagccc cactcaacca 60  
ccacacctct cctcgttcac gctacccctt tctgctcttc ttctaccttt caagttttta 120  
aagtataaag atggcagaga cattcctatt tacctcagag tcggtgaacg agggacaccc 180  
tgacaagctc tgcgaccaa tt 202

<210> 2462  
<211> 196  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2462

nccnnacgtc gcntgcacgc gtacgtaagc tcggaattcg gctcgaggca gacttaacaa 60  
cagcaciaaag cgggttactg tctgttcaag ctaccatnct ctctctctct ttacttagtg 120  
cctccttgcc agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga 180  
acgaggggca ccctga 196

<210> 2463  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2463

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ttaacaacag cacaaagcgg 60  
 gttactgtct gttcaagcta ccatctctct ctctctttct tagtgcctcc ttgccagggtg 120  
 ctgccactct ctctttctct ctcttcatcc ttctgttggg ttggttgtgg agtggtgttt 180  
 tctgttgtgc acgtgttgtc attttttacc ctgccacag atctgaagtg ttcaagtttg 240  
 gattttgtgc ttctggaagt taaaatggcc caagaaactt tcctattcac atctgaatca 300  
 gtgaacgagg ggcaccctga caa 323

<210> 2464  
 <211> 132  
 <212> DNA  
 <213> Glycine max

<400> 2464

gcatgcacgc gtacgtaagc tcggaattcg gctcgagcag atggcaagac acaagtaact 60  
 gttgagtaac tacaatgaca atggtgccat ggttccagtt cgtgtccaca ctgtcctaata 120  
 ttccccacaca ac 132

<210> 2465  
 <211> 189  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2465

gggagttagg ttctgcacgc nctgngncca gcgagtgtgc tntcttcgtg tcaacacctg 60  
 aatttgcann acgtgcgnc tgcagcttga gaaatggcac aagaaaccnn gctatncana 120  
 tctgaatcgg taaacgaggg tcacnncgac aagctgtggg accagatctc tgatgcagtg 180  
 ctcgatgcg 189

<210> 2466  
 <211> 138  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2466  
  
 tngcacgcgt acgtaagctc ggnattcggc tcgagggagn ttggtgntgg tgaccaaggt 60  
 catatgttcg gctatgccna ctgacgagnn ctcccagact catgcccttg agccatgtnc 120  
 cttgccacga agcttcgg 138

<210> 2467  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2467  
  
 ncctctnanc ntttacatcg anacnacgta cgtnagctcg gnattcggct cgagcagact 60  
 taacaacagc acaaagcggg ttactgtctg ttcaagctac catctctctc tctctttctt 120  
 agtgccctcc ttgccagggt ctgccactct ctctttctct ctcttcaccc ttctgttggg 180  
 ttggttgtgg agtgttgttt tctgttgtgc acgtgttgtc attttttacc ctgccacag 240  
 atctgaagtg ttcaagtittg gattttgtgc ttctggaagt taaaatggcc caagaaactt 300  
 tcctattcac atctgaatca gtgaacgagg ggcaccctga c 341

<210> 2468  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2468  
  
 gtcgcatgca cgcgtacgta agctcggaat tcggctcgag aatgacacca cctaccccct 60  
 tctccctata aatggcaact caatgcccc cttagaactc gcagcgcttg atttgaggcc 120  
 aggcaagccc cactcaacca ccacacctct cctcgttcac gctacccctt tctgtcttct 180  
 ttctaccttt caagttttta aagtataaag atggcagaga cattcctatt tacctcagag 240  
 tcggtgaacg agggacaccc tgacaagctc tgc 273

<210> 2469  
 <211> 181  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2469

ggcgcacnca gnnntcgget cgagggccag gcaagcccca ctcaaccacc acacctctcc 60  
 tcgttcacgc tacccttttc tgcttttctt ctacctttca agtttttaaaa gtataaagat 120  
 ggcagagaca ttctatttta cctcagagtc ggtgaacgag ggacaccctg acaagctctg 180  
 c 181

<210> 2470  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2470

gtcgcacgca cgcgtacgta agctcggaat tcggctcgan gnagacttaa cancagnnca 60  
 aagcggggtta ctgtctgntc angctaccat ctctcnctct ntttcttagt gcctccntgc 120  
 cagnagttnn aatggcccaa gnnactttcn tantcacatc tgantcnntg aacgaggggc 180  
 acccngataa gctctgtgan cagatctccg atgctgtgct ccgatgnatg cttggagcng 240  
 gnnnctgnca gcnaggntgn ctgtgnaacn tgcacnangn ncancatggt gatggntttc 300  
 ggnga 305

<210> 2471  
 <211> 199  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2471

agtcgangca ncgtacgtaa gctcggaatt cggctcgagg cagacttaac aacagcacia 60  
 agcggggttac tgtctgttca agctaccatc tctctctctc tttcttagtg cctccttgcc 120  
 agaagttaaa atggcccaag aaactttcct attcacatct gaatcagtga acgaggggca 180  
 ccctgacaag ctctgtgat 199

<210> 2472  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2472

cgcatgcacg cgtacgtaag ctcggaattc ggctcgagcc ttgatctcaa gaggggtgga 60  
 aatggcaggt tcttgaagac tgctgcatat ggacactttg gcagagatga ccctgacttc 120  
 acatgggaag tgggtaagcc actcaagggg gagaaggtag ctgcttaact aaaaggggtt 180  
 ccaacactct tggcaaggga cttttgcact actactggct tcttattatc tgattgctaa 240  
 aattttctct atgtttcctt cctctact caattctgtt tttttttnc ngatattttt 300  
 tatgaatttc cccctttttt ttgtgta 327

<210> 2473  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2473

ggggtggaaa tggcagggtc ttgaagactg cngcatatgg acactttggc agagatgacc 60  
 ctgacttcac atgggaagtg gtgaagccac tcaaggggga gaaggtagct gcttaactaa 120  
 aaggggttcc aacactcttg gcaagggact tttgcactac tactggcttc ttattatctg 180  
 attgcnaaaa ttttctctat gnntccttcc ctcttactca attctgtttt tntttttctg 240  
 tatttttnat gaattc 256

<210> 2474  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<400> 2474

atggcagggtt cttgaagact gctgcatatg gacactttgg cagagatgac cctgacttca 60  
 catgggaagt ggtgaagcca ctcaaggggg agaaggtagc tgcttaacta aaaggggttc 120  
 caacactctt ggcaagggac ttttgacta ctactggctt cttattatct gattgctaaa 180

attttctcta tgtttccttc cctcttactc aatc 214

<210> 2475  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<400> 2475

atggcagggt cttgaagact gctgcatatg gacacttttg cagagatgac cctgacttca 60  
 catgggaagt ggtgaagcca ctcaaggggg agaaggtacc tgcttaacta aaaggggttc 120  
 caacactctt ggcaaggggac ttttgcaacta ctactggcctt ctattatctg attgctaaaa 180  
 ttttctctat gtttccttcc ctctta 206

<210> 2476  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2476

cctccncaac agtcgcatgc acgcgtacgt aagtcggaat tcngctcgag ctgctgcata 60  
 tggacacttt ggcagagatg accctgactt cacatgggaa gtgggtgaagc cacttcaagg 120  
 gggagaaggt acctgcttaa ctaaaagggg ttccaacact cttggcaagg gacttttgca 180  
 ctactactgg cttcttatta tctgattgct aaaaattttct ctatgtttcc tccctcttac 240  
 tcaattctgt tttttttnt ctgtnttttc tnatgaattt cccctttttt tttgggnact 300  
 ngnatgtgtt c 311

<210> 2477  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2477

tcgcangcac gcgtacgtaa gctcggaatt cggtcgagg catatggaca ctttggcaga 60  
 natgaccctg acttcacatg ggaagtgggtg aagccacttc aagggggaga aggtacctgc 120  
 ttaactaaaa ggggttccaa cactcttggc aagggaacttt tgcactacta ctggcttctt 180

attatctgat tgctanaatt ttctctatgt ttccttccct cttaactcaat tctntttttc 240  
 nttttctgta tttntttatg aatttccccc ttttnttgn gnacttgta gngtnctnnc 300

<210> 2478  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2478

acgtcgcacg cacgcgtacg taagctcggg attcgggctcg agatttcgca tctnctcctt 60  
 ctcatcccaa ctccaaaata cacacacacg atggaaacct tcctcttcac ctcagaatct 120  
 ncaaacgagg gccaccccga caagatctgt gaccagggtt ctgatgccat cctcgatgct 180  
 tgcttgagc aagacccaga gagcaagggt gctgcgaga cctgtacaaa aaccaacatg 240  
 gtcattggtct ttggggagat cacaaccaag gccaaaggta actacgagaa t 291

<210> 2479  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <400> 2479

agtcgcatgc acgcgtacgt aagctcggaa ttcgggctcga gcggctgcga gaagacgaca 60  
 gaaggggttc ctcttcaatt tcgcattctt tccttctcat tccaacttcc aaaatacaca 120  
 cacacgatgg aaaccttcct cttcacctca gaatctgtaa acgagggcca ccccgacaag 180  
 atctgtgacc aggtttctga tgccatctc gatgcttgc tggagcaaga cccagagagc 240  
 aaggttgctt gcgagacctg tacaaaaacc aacatgggtca tggctcttgg ggagatcaca 300  
 accaaggc 308

<210> 2480  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2480

cttctgtttc tggnttcatt ngggtgtttg gacacaattg ctnaattata ctttctgttg 60

attgtgttga cgcnggactg aatgaactaa tggagtctan aggtgggaaa nagaagtcnn 120  
 nnnnnnnnnn nnnnnaatca ttgttctacg aagctcccct cggatacagc atnngaagac 180  
 gttagaccaa acggtggaat caagaaattc agatctgctg cttactccaa cgtatatntt 240  
 cttctgatgc agtgattctg ta 262

<210> 2481  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2481

ggnggtnnnng aatgatttag gtgncctagc caagacanat gacatcgcg t ncacgcntac 60  
 gtaagntcgg aattcggctc gagctcgagc cgcaaaaatt cgggaagact agtgactgtg 120  
 gttcacctag atcaactcta aagtgtctgga atgaggaaga tgaggaagag tagtttcctt 180  
 aagtgtctttt attattctgt ccttgtgaaa ataagtctgg ttttccagat acgttattgt 240  
 ttttctttgt tgtctttttt agcttctgtt agagaccatt tgggcattta gacctttatt 300  
 gtttctatta ccatttgaac atcgaatgga ttaataaatc actttgtttg cgtgcaaaaa 360  
 aaannacana tctttcnana aanaaaaaaaaa annaaaaaana acanaaaaaan aaaaaaaaaan 420

<210> 2482  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2482

tcgcatgcac gcgtacgtaa gctcggaatt cggtcgcagc nggaggatta ggcctccgag 60  
 cattgtccaa agaccaattg gacgagattc ttaaaccagc agagtgcact attgtngcat 120  
 cactttcaaa tgattatgtt gactcttatg ttctgtcaga gtcaagcctg ttcgtctatc 180  
 cttataaaat tatcatcaaa acttgtggga ctaccaaatt gcttctgtcc atccctgtcc 240  
 attctcaagt tgggctgatg ctcttgacat agctgtgaaa tctgtga 287

<210> 2483  
 <211> 288  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 2483

```
acgtcgcang cagcgtacg taagctcgga attcggctcg agcgaaaaaa gacttgagat 60
atcatttttt gaaaatgggtg tgtttgctga ccccgaggga ttaggcctcc gagcattgtn 120
ccaaagacca attggacgag attcttaaac cagcagagtg cactattgtt gcatcacttt 180
caaagtatta tggtgactct tatgttctgt cagagtcaag cctgttcgtc tatcctataa 240
aattatcatc aaaacttggtg ggactaccaa attgcttctg tccatccc 288
```

<210> 2484

<211> 306

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2484

```
cgctcangca cgcgtacgta agctcgggaat tcggctcgag ntctgatata tctgantttg 60
antttgaccc ntgcggatat tcaatgaatg gnntagaagg gagtgcctata tccaccatcc 120
atgtcactcc tgaagatggg ttcagttacg caagttttga agctgttggt tatgacttta 180
atgacatggc tctaggtgaa nttgtggaaa gganttttagc ttgcttttgt ccagcagagt 240
tttctgttgc tttgcacatt gacatgcatg gtgagaaaact aanaaatttc ccttaganat 300
caaagg 306
```

<210> 2485

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2485

```
gtctatgcac gcgtacgtaa gcnncggaat ncggctcgag gtctgatata tctgattttg 60
aatttgaccc ttgcggatat tcaatgaatg gaatagaagg gagtgcctata tccaccatcc 120
atgtcactcc tgaagatggg ttcagttacg caagttttga agctgttggt tatgacttta 180
atgacatggc tctaggtgaa cttgtggaaa ggatttttagc tgcttttgtc cagcagagtt 240
ttctgttgc tgcacatgac atgcagnctg agaaantaat aaattcccta gacatcaaag 300
```

gatactactg tggt

314

<210> 2486  
<211> 476  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2486

aactccnctc cgntcgnncg tgnnnntngta cagaagtccc ggctcgaccc acacgtcagc 60  
tccttcaaac tccatctttc caaatcctct ctttgcgatt gtgttttgat ctgcttccta 120  
ctgcgatagt ttctctactg ttacatggcc atggcggttt ccgcaattgg ttttgaaggt 180  
ttcgagaaaa ggttggaat atcctttttc cagccgggac tttttgctga ccctgaagga 240  
aggggtctaa gggctcttac aaaatcccag ttgggtgaga ttctaacacc agctgcttgc 300  
accattgttt ctctgctcaa aaacgataat gtcgactcct atgttctatc tgagtccagc 360  
ctctttgttt atgcctacaa gatcatcatc aaaacctgtg gtactactaa gctattgctt 420  
gcaatcccac ccatattgaa gtctgctgaa atgctttccc ntaatgttaa gtcngt 476

<210> 2487  
<211> 510  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2487

gnngnaaggt tgntnagna cgggggtana tngaannnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt gcatgactgg 120  
cctggataga gagaaagcac aggttttcta caaagaacaa tctgcttcag ctgccatgat 180  
gactgttaat tccggcatta gaaaaattct tccagattcc gagatttggtg actttgactt 240  
tgaaccatgt gggtattcaa tgaactctgt tgaaggcgct gctgtttcta cgattcatgt 300  
taccocagaa gatggtttca gttatgcaag ctctgaaact gttgggttatg acttcaaagc 360  
ggtgaatctg aacgaaatgg gttcaagang gtattggcat gtttcctncc aactgagttt 420  
ctgttgacgt caatgtggat ggtgcaagca agtcgtttga ccanacctgc ttctggatgt 480  
taagggatac tgntgaaaa gaggaacccc 510

<210> 2488  
 <211> 560  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2488

```

gnnnnngnnnn nnntnnnaag taagtnaaan ctctntggaa agcncctacc ggtncggaat   60
tcccggcccg acccacgcgt ccggcttcag ctgccattat gactgttaat tctggcatta  120
gaaaaattct tccagantct gagatttgtg actttgactt tgagccatgt ggttattcaa  180
tgaactctgt tgaagggtgt gctgtttcta ccattcatgt taccacagaa gatggttnca  240
gttatgcaag ctttgagact gttgggnatg acttcaaagt ggtgaatctg aacgaaatgg  300
ttaagagggg attggcatgt tttctcccaa ctgagttctc tgttgagtt catgtggatg  360
gtgcaagcaa gttgtttgat cagacgtgtn ttctggatgt taagggatac tgtcgcaag  420
agaggagccc acgaaaagggn ttgggaatgg gtggnnntct tggctaccaa aaaaantgcc  480
aaagacttgg gaactggggg tcaactagan ccaactctga aangntggaa aagaaggaag  540
atgaagaaag agtagttttt                                     560

```

<210> 2489  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2489

```

gngnnnnngn nnnnnnnnnn tnnntttngg tggcntanag ccnnnnataa cancatcacg   60
tcgcangcat gannncgnaa ntcggctccg anggttatc aatgaactct gttgaagggtg  120
ctgctgtttc taccattcat gttaccccag aagatggttt cagttatgca agctttgaga  180
ctgttgaggta tgacttcaaa gtggtgaatc tgaacgaaat ggttaagagg gtattggcat  240
gttttctccc aactgagttc tctgttgagc ttcatgtgga tgggtgcaagc aagttgtttg  300
atcagacgtg ttttctggga tgtaagggga tactgtcgcg aagagaggag ccacgaaggg  360
cttggaatgg gtggtttctc tgtctaccaa aaatttgcca agacttgtga ctgtggttca  420
nctanattaa ctctgaaat gctgggaaag aaggaanatt aaanaanaat aattttcctt  480

```

aagtg

485

<210> 2490  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 2490

gcatgactgg cctggataga gagaaagcac aggttttcta caaagaacaa tctgcttcag 60  
ctgccatgat gactgttaat tccggcatta gaaaaattct tccagattcc gagatttgtg 120  
actttgactt tgaaccatgt gggtattcaa tgaactctgt tgaaggcgct gctgtttcta 180  
cgattcatgt taccacagaa gatggtttca gttatgcaag cttcgaaact gttggttatg 240  
acttcaaagc ggtgaatctg aacgaaatgg ttcagagggg attggcatgt ttcctcccaa 300  
ctgagttttc tgttgcatgt catgtggatg gtgcaagca 339

<210> 2491  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2491

gtttcagtta tgcaagcttt gagactgttg ggtatgactt caaagtgggtg aatctgaacg 60  
aaatgggttaa gaggggtattg gcatgttttc tcccaactga gttctctgtt gcagttcatg 120  
tggatgggtgc aagcaagttg tttgatcaga cgtgttttct ggatgttaag ggatactgtc 180  
gcgaagagag gagccacgaa gggcttggaa tgggtgggtc tcttgtctac caaaaatttg 240  
ccaagacttg tgactgttgt tcacctagat caactctgaa gtgctggaaa gaggaagatg 300  
aagaagagta gttttcttaa gtgtctttat tatgtccttg cgaaaataag tccggttttc 360  
cagacagtga ttgtttntct ttggtgnntt ttnccctnta tgtagacca tg 412

<210> 2492  
<211> 504  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2492

```

agtgtntntg nnagggggga nnatggtaac actctcgaag actatgacgt cgcattgcacg   60
cgtacgtaag ctcggaattc ggctcgagtg catgcaacca tagttttatt aggatttttt 120
cttctttgtt ttcaattagg tttttttgtt gctctccttc aaactccatc tttccaaatc 180
ctctctttgc gattgtgttt tgatctgctt cctactgcga tagtttctct actgttacat 240
ggccatggcg gtttccgcaa ttggttttga aggtttcgag aaaagggttg aaatatacctt 300
tttccagccg ggactttttg ctgaccctga aggaaggggt ctaagggttc ttacaaaatc 360
ccagttgggt gagattctaa caccagctgc ttgcaccatt gtttcttcgc tcaaaaacga 420
taatgtcgac tcctatgttc tatctgagtc cagcctcttt ggttatgcct acaagatcat 480
catcaaaacc tgnngggacta ctaa                                         504

```

```

<210>      2493
<211>      347
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      2493

```

```

tgcaattggt tttgaagggt tcgagaagan gctggaaata tcctttttcc agcngggact   60
ttttgctgac cctgagggaa tgggtttaag agctcttgca nagtcccagt tggatgagat 120
acttacaccg gctgcttgca ccattgtttc atctctcaga aatgatcatg tcgactccta 180
tgttctgtct gagtccagtc tctttgttta tgcctacaag atcatcatca aaacctgtgg 240
tactacaaag ctactgcttg caatcccacc catattgaaa tttgctgaaa tgctttcctc 300
aatgtagatc tgtgnaatac accaggaag ttcanctttn ccggtgt                    347

```

```

<210>      2494
<211>      314
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      2494

```

```

gtcgcattgca cgcgtacgta agctcggaat tcggctcgag gccatggcgg tttctgcaat   60
tggttttgaa ggtttcgaga agangctgga aatatacctt ttccagccgg gactttttgc 120
tgaccctgag ggaatgggtt taagagctct tgcaaagtcc cagttggatg agatacttac 180

```

accggtgct tgcaccattg tttcatctcn cagaaatgat catgtcgact cctatgttct 240  
gtctgagtc agtctctttg tttatgccta caagatcatc atcaaaacct gtggtactac 300  
aaagctactg cttg 314

<210> 2495  
<211> 314  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2495

aangcacgcg tacgtaagct cggaattcgg ctcgagaaac aatctgcttc agctgccatt 60  
atgactgtta attctggcat tagaaaaatt ctccagatt ctgagatttg tgactttgac 120  
tttgagccat gtggttattc aatgaactct gttgaagggtg ctgctgtttc taccattcat 180  
gttaccaccag aagatgggtt cagttatgca agctttgaga ctgttgggta tgacttcaaa 240  
gtggtgaatc tgaacgaaat ggtaagagg gtattggcat gttttctccc aactgagttc 300  
tctgttgacg ttca 314

<210> 2496  
<211> 320  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2496

gtacgtanag ctcggaattc ggctcgagtgc cattagaaa aattcttcca gattctgaga 60  
tttgtgactt tgactttgag ccatgtggtt attccaatga actctgttga aggtgctgct 120  
gtttctacca ttcatgttac ccagaagat ggtttcagtt atgcaagctt tgagactgtt 180  
gggtatgact caaagtgggt aatctgaacg aaatgggtta gagggatttg gcatgttttc 240  
tcccaactga gttctctgtt gcagttcatg tggatgggtgc aagcaagttg tttgatcaga 300  
cgtgttttct ggatgttaag 320

<210> 2497  
<211> 293  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        2497

```
gtngcangca cgcgtacgta agctcgggaat tcggctcgag gccatggcgg tttccgcaat   60
tggttttgaa ggtttcgaga aaagggttga aatatccttt ttccagccgg gactttttgc  120
tgaccctgaa ggaaggggtc taagggtctt tacaaaatcc cagttgggtg agattctaac  180
accagctgct tgcaccattg tttcttcgct caaaaacgat aatgtcgact cctatgttct  240
atctgagtc agcctctttg tttatgccta caagatcatc atcaaaacct gtg          293
```

<210>        2498  
<211>        327  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        2498

```
nnntaanang tcgnangcac gcgtacgtaa gctcngaatt cggctcgagc ttcaaagtgg   60
tgaatctgaa cgaaatgggt aagaggggtat tnnctgttt tctcccaact gagttctctg  120
ttgccgttca tgtgnatggt gcaagcaagt tgtttgatca gacgtgtttt ctggatgtta  180
agggatactg tcgcgaagag aggagccacg aagggtcttg aatgggtggt tctcttgtct  240
accaaaaaatt tgccaagact tgtgactgtg gttcacctag atcaactctg aagtgtctga  300
aagaggaaga tgaagaagag tagttttt          327
```

<210>        2499  
<211>        284  
<212>        DNA  
<213>        Glycine max

<400>        2499

```
tgtctgagtc cagtctcttt gtttatgcct acaagatcat catcaaaacc tgtggtacta   60
caaagctact gcttgcaatc ccacccatat tgaaatttgc tgaaatgctt tccctcaatg  120
ttagatctgt gaattacacc aggggaagtt tcacttttcc cggtgctcag ccctatcccc  180
atcgcaactt ttctgaggaa gttgctattc ttgatggcta ctttggcaag cttagtgcag  240
gaagcaatgc ttatatTTTT ggtggccaag acaaatcaca gaac          284
```

<210> 2500  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2500

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ntttccgcaa ttggttttga 60  
 aggttttcgag aaaagggttg aaatatcctt tttccagccg ggactttttg ctgaccctga 120  
 aggaaggggt ctaagggtc ttacaaaatc ccagttgggt gagattctaa caccagctgc 180  
 ttgcaccatt gtntcttcgc tcaaaaacga taatgtcgac tcctatgttc tatctgagtc 240  
 cagcctcttt gtttatgcct acaagatcat catcaaaaacc tgtggtacta ctaagctat 299

<210> 2501  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 2501

aattggtttt gaaggtttcg agaaaagggt ggaaatatcc tttttccagc cgggactttt 60  
 tgctgaccct gaaggaagg gtctaagggtc tcttacaaaa tcccagttgg gtgagattct 120  
 aacaccagct gcttgacca ttgtttcttc gctcaaaaac gataatgtcg actcctatgt 180  
 tctatctgag tccagcctct ttgtttatgc ctacaagatc atcatcaaaa cctgtggtac 240  
 tactaagcta ttgctt 256

<210> 2502  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2502

ntcgcattgca cgcgtacgta agctcggaat tcggctcgag tngcgggtttc cgcaattgggt 60  
 tttgaagggt tcgagaaaag gttggaaata tcctttttcc agccgggact ttttgctgac 120  
 cctgaaggaa ggggtctaag ggctcttaca aaatcccagt tgggtgagat tctaaccacca 180  
 gctgcttgca ccattgtttc ttgctcaaaa aacgataatg tcgactccta tgttctatct 240  
 gagtccagcc tctttgttta tgcttacaag atcatcatca aaacctgtgg taactactaa 300



gctattgctt gcaat

315

<210> 2503

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2503

cangcacgcg tacgtaagct cggaattcgg ctcgagggtta attctggcat tagaaaaatt 60

cttccagatt ctgagatttg tgactttgac tttgagccat gtggttattc aatgaactct 120

gttgaagggtg ctgctgtttc taccattcat gttaccccag aagatgggtt cagttatgaa 180

gctttgagac tgttgggtat gacttcaaag tgggtgaatct gaacgaaatg gttaagaggg 240

tattggcatg ttttctccca actgagttct ctgttgcaat tcatgtggat ggtgcaagca 300

agtngtttga tc 312

<210> 2504

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2504

ccacgcgtcc gccagattga tagttcattg catgcaacca tagttttatt aggttttttc 60

ttctttgntt tcaattaggt ttttgctgct ctctttcaaa ctccgtcttt ccgaatcctc 120

tctttgtgat tgtgttctgt tctgcttcct accgcgatag tttctcttct gaagcatggc 180

catggcggtt tctgcaattg gttttgaagg tttcgagaag aggctggaaa tatccttttt 240

ccagccggga ctttttgctg accctgaggg aatgggttta agagctcttg caaagtccca 300

gttgatgag atacttacac cggtgcttg caccattggg tcatctctca gaaatgatca 360

tgctgactcc tatgggtctgg ctgaagtcca gtctctttgg ttatgcctac aagatcatta 420

tcaaaacctg ggttactaca 440

<210> 2505

<211> 287

<212> DNA

<213> Glycine max

<400> 2505

gtcgcacatgca cgcgtacgta agctcggaat tcggctcgag ggcggtttcc gcaattgggtt 60  
ttgaagggttt cgagaaaagg ttggaaatat cttttttcca gccgggactt tttgctgacc 120  
ctgaaggaag gggctctaagg gctcttataa aatcccagtt gggtgagatt ctaacaccag 180  
ctgcttgacac cattgtttct tcgctcaaaa acgataatgt cgactcctat gttctatctg 240  
agtccagcct ctttgtttat gcctacaaga tcatcatcaa aacctgt 287

<210> 2506

<211> 298

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2506

nngcatgcac ncgtacgtaa gctcgggaatt cggctcgagg ctgtttctac gnttcatggt 60  
accccagaag atggtttcag ttatgcaagc ttcgaaactg ttggttatga cttcaaagcg 120  
gtgaatctga acgaaatngt tcagagggtta ttggcatggt tcctcccaac tgagttttct 180  
gttgacgttc atgtggatgg tgcaagcaag tcgtttgagc agacctgctt tctggatggt 240  
aagggatact gtcgtgaaga gaggagccac gaagggcttg gaatgggtgg ttctgttg 298

<210> 2507

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2507

ccacgcgtcc gcttgatggc tactttggca aacttggtgc aggaagcaat gcttatattt 60  
tgggtggcca anacnaagca cagaactggc atgtctactc tgcttctgca gattctgtaa 120  
ctcaatgtga caatgtttac actcttgaga tgtgcatgac tggcctggat agagagaaaag 180  
cacagggttt ctacaaagaa caatctgctt cagctgccat gatgactgnt aattccggca 240  
ttagaaaaat tcttccaaat tcccagaatt gngactttgn ntttgaacca tgtggntatt 300  
caatgaactn tgnttgaaag gcncttgtgg ttctacgatt catggtancc ccagaagatg 360  
ggtcannat tgcaagcttt gnaaactntt gggatatgact ttaaagccgg ngaatntgaa 420

cccaaaaaggn ttaaanggat ttggcatggt tcctccaact taantttctg tncaantcat 480  
 tggggaangt gcaagcaagn ntttt 505

<210> 2508  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2508

gtcgcacgca cgcgtacgta agctcggaaat tcggctcgag ctttgaacca tgtggttatt 60  
 caatgaactc tgttgaaggc gctgntgttt ctacgattca tgttacccca gaagatgggt 120  
 tcagttatgc aagcttcgaa actgttgggt atgacttcaa agcgggtgaat ctgaacgaaa 180  
 tgggtcagag ggtattggca tgtttcctcc caactgagtt ttctgttgca gttcatgtgg 240  
 atggtgcaag caagtcgttt gagcagacct gctttctgga tgtaaggga tact 294

<210> 2509  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2509

agtcgcnnngc acgcgtacgt aagctcggaa ttcggctcga ggttttctac aaagaacaat 60  
 ctgcttcagc tgccattatg actgttaatt ctggcattag aaaaattctt ccagattctg 120  
 agatttgtga ctttgacttt gagccatgtg gttattcaat gaactctgtt gaagggtgctg 180  
 ctgtttctac cattcatgtt accccagaag atggtttcag ttatgcaagc tttgagactg 240  
 ttgggtatga cttcaaagtgt gtgaatctga acgaaatggt taagagggtta ttggca 296

<210> 2510  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 2510

ggactttttg ctgaccctga aggaaggggt ctaagggtc ttacaaaatc ccagttgggt 60  
 gagattctaa caccagctgc ttgcaccatt gtttcttcgc tcaaaaacga taatgtcgac 120

tcctatgttc tatctgagtc cagcctcttt gtttatgcct acaagatcat catcaaaacc 180  
 tgttggtacta ctaagctatt gcttgcaatc ccacccatat tgaagttcgc tgaaatgctt 240  
 tcccttaatg ttaa 254

<210> 2511  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 2511

tcgcatgcac gcgtacgtaa gctcggaatt cggctcgaga ggcgctgctg tttctacgat 60  
 tcatgttacc ccagaagatg gtttcagtta tgcaagcttc gaaactgttg gttatgactt 120  
 caaagcgggtg aatctgaacg aaatgggtca gaggggtattg gcatgtttcc tcccaactga 180  
 gttttctgtt gcagttcatg tggatgggtgc aagcaagtcg tttgagcaga cctgctttct 240  
 ggatgttaag ggatactgtc gtgaagagag gagccacgaa gggcttggaa tgggtgggtt 299

<210> 2512  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 2512

gtcgactcct atgtttatc tgagtccagc ctctttgttt atgcctacaa gatcatcatc 60  
 aaaacctgtg gtactactaa gctattgctt gcaatccacc catattgaag ttcgctgaaa 120  
 tgctttccct taatgttaag tctgtgaatt acaccagggg aagtttcatt ttccccagtg 180  
 ctcagccata tccccatcgc aacttttctg aggaagttgc tattcttgat ggctactttg 240  
 gcaaacttgg tgcagga 257

<210> 2513  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2513

gtcgengcac gcgtacgtaa gctcggaatt cggctcgagc tcgagccgct cctatgttct 60

atctgagtcc agcctctttg tttatnccta caagatcatc anccaaaacc tgtggtacta 120  
ctaagctatt gcttgcaatc ccacccatat tgaagttcgc tgaaatgctt tcccttaatg 180  
ttaagtctgt gaattacacc aggggaagtt tcattttccc cagtgtcag ccatacccc 240  
atcgcaactt ttctgaggaa gttgctattc ttgatggcta ctttggcaaa cttggtgcag 300  
gaagcaatgc 310

<210> 2514  
<211> 322  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2514

tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagc agagggtatt ggcatgtttc 60  
ctcccaactg agttttctgt tgcagttcat gtggatgggtg caagcaagtc gtttgagcag 120  
acctgctttc tggatgttaa gggatactgt cgtgaagaga ggagccacga agggcttgga 180  
atgggtgggt ctgttgtcta ccaaaaattc gggaagacta gtgactgtgg ttcacctaga 240  
tcaactctaa agtgctggaa tgaggaagat gaggaagagt agtttcctta agtgtcttta 300  
ttattctgtc cttgtgaaaa ta 322

<210> 2515  
<211> 314  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2515

aannnnga an cgcangcncg cgnacgtnan ctcggaattn ngctcnaggt ctaaggntc 60  
ttacaaaatc ccagttgggt gagattctna caccagctgc ttgcaccatt gtttcttcgc 120  
tcaaaaacga taatgtcgac tcctntgttc tatctgantc cagcctcttt gtntatgcct 180  
acnagatcat catcaaaacc tgtggtacta ctaagctatt gcttgcnatc ccacccatat 240  
tgaagttngc tganatgctt tcccttaatg ttaagtctgt gaattacacc aggggaagtt 300  
tcattttccc cagt 314

<210> 2516

<211> 283  
 <212> DNA  
 <213> Glycine max

<400> 2516

gatgcacgcg tacgtaagct cggaattcgg ctcgagggtga ctttgacttt gagccatgtg 60  
 gttattcaat gaactctggt gaagggtgctg ctgtttctac cattcatggt accccagaag 120  
 atggtttcag ttatgcaagc ttgagactg ttgggtatga cttcaaagtg gtgaatctga 180  
 acgaaatggg taagagggga ttggcatggt ttctcccaac tgagttctct gttgcagttc 240  
 atgtggatgg tgcaagcaag ttgtttgatc agacgtgttt tct 283

<210> 2517  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 2517

gtccagcctc tttgtttatg cctacaagat catcatcaaa acctgtggta ctactaagct 60  
 attgcttgca atcccaccca tattgaagtt cgctgaaatg ctttccctta atgttaagtc 120  
 tgtgaattac accaggggaa gtttcatttt cccagtgct cagccatatc cccatcgcaa 180  
 cttttctgag gaagttgcta ttcttgatgg ctactttggc aaacttggtg caggaagcaa 240  
 tgcttat 247

<210> 2518  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2518

gtcgcangca cgcgtacgta agctcggaat tcggctcgag gccatatccc catcgcaact 60  
 tttctgagga agttgctatt cttgatggct actttggcaa acttgggtgca ggaagcaatg 120  
 cttatatttt ggggtggccaa gacaaagcac agaactggca tgtctactct gcttctgcag 180  
 attctgtaac tcaatgtgac aatgtttaca ctcttgagat gtgcatgact ggcctggata 240  
 gagagaaagc acagggttttc tacaagaac aatctgcttc agctgccatg atgactgtta 300  
 attccggcat tagaaaaatt ctccagatt ccgaga 336

<210> 2519  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 2519

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agtcctatgc acgcgtacgt aagctcggaa ttcggctcga gatcaaaacc tgtggtacta 60
ctaagctatt gcttgcaatc ccacccatat tgaagttcgc tgaaatgctt tcccttaatg 120
ttaagtctgt gaattacacc aggggaagtt tcattttccc cagtgtcag ccatatcccc 180
atcgcaactt ttctgaggaa gttgctattc ttgatggcta ctttggcaaa cttggtgcag 240
gaagcaatgc ttatatTTTg ggtggccaag acaaagcaca gaactggcat gtctactctg 300
cttctg 306
```

<210> 2520  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 2520

```
catgtcgact cctatgttct gtctgagtcc agtctctttg tttatgccta caagatcatc 60
atcaaaacct gtggtactac aaagctactg cttgcaatcc caccatatt gaaatttgct 120
gaaatgtttc cctcaatgtt agatctgtga attacaccag gggaagtttc atctttcccg 180
gtgctcagcc ctatccccat cgcaactttt ctgaggaagt tgctattctt gatggctact 240
ttggcaa 247
```

<210> 2521  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2521

```
gtcncatgca cgcccaacgt aagctcggaa ttcggctcga ggtttacact cttgagatgt 60
gcatgactgg cctggataga gagaaagcac aggttttcta caaagaacaa tctgcttcag 120
ctgccatgat gactgttaat tccggcatta gaaaaattct tccagattcc gagatttgtg 180
```

actttgactt tgnaccatgt ggttattcaa tgaactctgt tgaaggcgct gctgtttcta 240  
cgattcatgt taccaccagaa gatggtttca gttatgcaag ct 282

<210> 2522  
<211> 305  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2522

gcatgcacgc gtacgtaagc tcggaattcg gctcgagnaa aacctgtggt actactaagc 60  
tattgcttgc aatcccaccc atattgaagt tcgctgaaat gctttccctt aatgttaagt 120  
ctgtgaatta caccagggga agtttcattt tccccagtgc tcagccatat ccccatcgca 180  
acttttntga ggaagttgct attccttgatg gctactttgg caaacttggt gcaggaagca 240  
atgcttatat tttgggtggc caagacaaaag cacagaactg gcatgtctac tctgcttctg 300  
cagat 305

<210> 2523  
<211> 287  
<212> DNA  
<213> Glycine max  
  
<400> 2523

cgtatgcacg cgtacgtaag ctcggaattc ggctcgagct cttctgaagc atggccatgg 60  
cggtttctgc aattggtttt gaaggtttcg agaagaggct ggaaatatcc tttttccagc 120  
cgggactttt tgctgaccct gagggaatgg gtttaagagc tcttgcaaag tcccagttgg 180  
atgagatact tacaccggct gcttgcacca ttgtttcatc tctcagaaat gatcatgtcg 240  
actcctatgt tctgtctgag tccagtctct tgtttatgcc tacaaga 287

<210> 2524  
<211> 276  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2524

tcgcangcac gcgtacgtna gctcggaatt cggctcgagg gcattagaaa aattcttcca 60



gattctgaga tttgtgactt tgactttgag ccatgtggtt attcaatgaa ctctgttgaa 120  
 ggtgctgctg tttctacat tcatgttacc ccagaagatg gtttcagtta tgcaagcttt 180  
 gagactgttg gncatgactt caaagtgggtg aatctgaacg aaatgggttaa gaggggtattg 240  
 gcatgttttc tcccaactga gticgtgttg cagttc 276

<210> 2525  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2525

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag cccaactgag ttctctgttg 60  
 cagttcatgt ggatgggtgca agcnagtgt ttgatcagac gtgttttctg gatgttaagg 120  
 gatactgtcg cgaagagagg agccacgaag ggcttggaat ggggtggttct cttgtctacc 180  
 aaaaatttgc caagacttgt gactgtgggtt cacctagatc aactctgaag tgntggaaag 240  
 aggaagatga agaagagtag ttttcttaag tgtctttatt atgtccttgc gaaaataagt 300  
 cc 302

<210> 2526  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2526

cangcacgcg tacgtaagct cggaattcgg ctcgagaaaa cgataatgtc gactcctatg 60  
 ttctatctga gtccagcctc tttgtttatg cctacaagat catcatcaaa acctgtggta 120  
 ctactaagct attgcttgca atcccaccca tattgaagtt cgctgaaatg ctttccctta 180  
 atgttaagtc tgtgaattac accaggggaa gtttcatttt cccagtgct cagccatatc 240  
 cccatcgcaa cttttctgag gaagttgcta ttct 274

<210> 2527  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2527

ctgcaattgg ttttgaaggt ttcgagaagn ngctggaaat atcctttttc cagccgggac 60  
 tttttgctga ccctgagggga atgggttttaa gagctcttgc aaagtcccag ttggatgaga 120  
 tacttacacc ggctgcttgc accatangtt tcatctctca gaaatgatca tgtcgactcc 180  
 tatgttctgt ctgagtnacag tctctttgtt tatgcctaca agatcatcat caaaacctgt 240  
 ggtatacaaaa gctactgttg cant 264

<210> 2528  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2528

ntgcacgcgt acgtaagctc ggaattcggc tcgaggctac tgcttgcaat cccacccata 60  
 ttgaaatttg ctgaaatgct ttcctcaat gttagatctg tgaattacac caggggaagt 120  
 ttcacttttc ccggtgctca gccctatccc catcgcaact tttctgagga agttgctatt 180  
 cttgatggct actttggcaa gcttagtgca ggaagcaatg cttatatattt ggggtggccaa 240  
 gacaaatcac agaactggca tgtctactct gcttctgcag attctgtaa 289

<210> 2529  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2529

tcnnangcac gcgtacgtna gctcggaatt cggctcgagg cttgcaatcc cacccatatt 60  
 gaagttcgct gaaatgcttt cccttaatgt taagtctgtg aattacacca ggggaagttt 120  
 cattttcccc agtgctcagc catatcccca tcgcaacttt tctgaggaag ttgctattct 180  
 tgatggctac tttggcaaac ttggtgcagg aagcaatgct tatatttttg gtggccaaga 240  
 caaagcacag aactggcatg tctactctgc ttctgcagat tctgtaactc aatgtgacaa 300  
 tgtttacatc t 311

<210> 2530  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2530

```

ttntangcac gcgtacgtna gctcgggaatt cggctcgagc aggaagcaat gcttataatnt    60
tgggtggcca agacaaatca cagaactggc atgtctactc tgcttctgca gattctgtaa    120
ctccatgcga caatgtttac actctagaga tgtgcatgac tggcctggat agagagaaaag    180
cacaggtttt ctacaaagaa caatctgctt cagctgccat tatgactgtt aattctggca    240
ttagaaaaat tcttccagat tctgagattt gtgactttga ctttgagcca tgtgggttatt    300
caatgaac                                          308
  
```

<210> 2531  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2531

```

tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagc aaagcacaga actggcatgt    60
ctactctgct tctgcagatt ctgtaactca atgtgacaat gtttactctc ttgagatgtg    120
catgactggc ctggatagag agaaagcaca ggttttctac aaagaacaat ctgcttcagc    180
tgccatgatg actgttaatt ccggcattag aaaaattctt ccagattccg agatttgtga    240
ctttgacttt gaaccatgtg gttattcaat gaactctgtt gaaggcgtg ct            292
  
```

<210> 2532  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2532

```

cnaangcacg cgtacgtaag ctcggaattc ggctcgaggc agattctgta actcaatgtg    60
acaatgttta cactcttgag atgtgcatga ctggcctgga tagagagaaa gcacaggttt    120
totacaaaga acaatctgct tcagctgccca tgatgactgt taattccggc attagaaaaa    180
  
```

ttcttccaga ttccgagatt tgtgactttg actttgaacc atgtggttat tcaatgaact 240  
 ctgttgaagg cgctgctgtt tctacgattc atgttactcc agaag 285

<210> 2533  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2533

gatgcagcgt acgt nagctc ggaattcggc tcgagaatcc tctctttgcg attgtgtttt 60  
 gatctgcttc ctactgcat agtttctcta ctgttacatg gccatggcgg tttccgcaat 120  
 tggttttgaa ggtttcgaga aaagggttga aatatccttt ttccagccgg gactttttgc 180  
 tgaccctgaa ggaaggggtc taagggtctt taaaaaatcc cagttgggtg agatctaaca 240  
 ccagctgctt gcaccattgt ttcttcgctc aaaaaacgat aatgtcgact cctatgttct 300  
 atctgagtcc agcctctttg tttatg 326

<210> 2534  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2534

ccacgcgtcc ggatagtctg ttgcatgcaa ccatagtttt attaggattt tttcttcttt 60  
 gntttcaatt aggttgtttt gntgctctcc ttcaaactcc atctttccaa atcctctctt 120  
 tgcgattgng ttttgatctg ctctactctg cgatagnctt tctactgnta catggccatg 180  
 gcggtttccg caattggttt tgaaggnttc gagaaaaggn tggaaatatc ctttttccaa 240  
 ccgggacttt ttgctgacct tgaagaagg ggtctaaang gctnttacia aatccaagtg 300  
 ggtgagattc taacaccagc tgnttgnacc attggttctt ngctnaaaaa cgatnatgnc 360  
 cacttctatg gtctatctna gttcangctt tttgggtatg cctaccaaga tcattattna 420  
 aaactnnggg accacctaac tattgggttn aatcccccnt atttgaaatt gcttnaanng 480  
 ctttccctta aggttaaaact gg 502

<210> 2535

<211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2535

nangtcgcan gcacgcgtac gtaagctcgg aattcggctc gaggctactg cttgcaatcc 60  
 caccatatt gaaatttgct gaaatgcttt ccctcaatgt tagatctgtg aattacacca 120  
 ggggaagttt catctttccc ggtgctcagc cctatcncca tcgcaacttt tctgaggaag 180  
 ttgctattct tgatggctac tttggcaagc ttagtgaggc aagcaatgct tatattttgg 240  
 gtggccaaga caaatcacag aactggcatg tctactctgc ttctgcagat t 291

<210> 2536  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2536

gcangcacgc gtacgtaagc tcgggaattc ggctcgagng ccaagacaaa gcacagaact 60  
 gggcatgtct actctgcttc tgcagattct gtaactcaat gtgacaatgt ttacactctt 120  
 gagatgtgca tgactggcct ggatagagag aaagcacagg ttttctacaa agaacaatct 180  
 gcttcagctg ccatgatgac tggttaattcc ggcattagaa aaattcttcc agattccgag 240  
 atttgtgact ttgactttga accatgtggt tattcaatga actctgttga aggcgctgct 300  
 gtttctac 308

<210> 2537  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2537

acgtcgcang cacgcgtacg taagctcgng aattcggctc gagggcaagc ttagtgaggc 60  
 aagcaatgct tatattttgg gtggccaaga caaatcacag aactggcatg tctactctgc 120  
 ttctgcagat tctgtaactc catgcgacaa tgtttacact ctagagatgt gcatgactgg 180  
 cctggataga gagaaagcac aggttttcta caaagaacaa tctgcttcag ctgccattat 240

gactgttaat tctggcatta gaaaaattct tccagattct gagatttggtg actttgactt 300  
 tgagccat 308

<210> 2538  
 <211> 281  
 <212> DNA  
 <213> Glycine max  
 <400> 2538

gtcgcgatgca cgcgtacgta agctcgggaat tccggctcgag gtactacaaa gctactgctt 60  
 gcaatccac ccattattgaa atttgctgaa atgctttccc tcaatgttag atctgtgaat 120  
 tacaccaggg gaagtttcat ctttcccggg gtcagccct atccccatcg caacttttct 180  
 gaggaagttg ctattcttga tggctacttt ggcaagctta gtgcaggaag caatgcttat 240  
 attttgggtg gccaaagacaa atcacagaac tggcatgtct a 281

<210> 2539  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2539

antcgcgatgc acgcgtacgt nagctcggaa ttcggctcga gattctggca ttagaaaaat 60  
 tcttccagat tctgagattt gtgactttga ctttgagcca tgtgggttatt caatgaactc 120  
 tgttgaaggt gctgctgttt ctaccattca tgttacccca gaagatgggt tcagttatgc 180  
 aagctttgag actgttgggt atgacttcaa agtgggtgaat ctgaacgaaa tggtaagag 240  
 ggtatgggca gttttcttcc caatgagttc tctgttgagc ttcagtggga ggtgcaaca 299

<210> 2540  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2540

ntgnncgcgt acgttagctc ggaattnggc tcgagctcga gccgttcgag aagaggctgg 60  
 aaatatcctt tttccagcng gnactttttg ctgaccctga ggncatgggt tnangagntc 120

ttgcaaagtc ccagttggat gagatannta nacncgctgc ttgcaccatt gtttcatctc 180  
tcagaaatga tcatgncgan tcctatgtnc tgtctgagtc cagtntcttn gtntatgcct 240  
acaagatcat catcaaaaacc tgnngtacta caaagctact gctt 284

<210> 2541  
<211> 297  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2541

gcgtacgtaa gctcgggaatt cggtcgcagn ttaggttttt ttgttgctct ctttcaaact 60  
ccatctttcc aaatcctctc tttgcgattg tgttttgatc tgcttcctac tgcgatagtt 120  
tctctactgt tacatggcca tggcggtttc cgcaattggt tttgaagggt tcgagaaaag 180  
gttggaataa tcctttttcc agccgggact ttttgctgac cctgaaggaa ggggtctaag 240  
ggctcttaca aaatcccagt tgggtgagat tctaacacca gctgcttgca ccatgtt 297

<210> 2542  
<211> 298  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2542

tcgnngcacg cgtacgtaag ctcggaattc ggctcgaggg ccaagacaaa tcacagaact 60  
ggcatgtcta ctctgcttct gcagattctg taactccatg cgacaatgtt tacactctag 120  
agatgtgcat gactggcctg gatagagaga aagcacaggt tttctacaaa gaacaatctg 180  
cttcagctgc cattatgact gttaattctg gcattagaaa aattcttcca gattctgaga 240  
tttgtgactt tgacttgagc catgtgggta ttcaatgaac tctgttgaag gtgctgct 298

<210> 2543  
<211> 390  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2543

ttcttgatat ccatccagat tgatagttca ttgcatgcaa ccatagtttt attaggtttt 60  
 ttcttctttg ttttcaatta ggtttttgct gctctccttc aaactccgtc tttccgaatc 120  
 ctctctttgt gatttgtgtc tgttctgctt cctaccgcga tagtttctct tctgaagcat 180  
 ggccatggcg gtttctgcaa ttggttttga aggtttcgag aagaggctgg aaatatcctt 240  
 tttccagccg ggactttttg ctgaccctga gggaatgggt ttaagagctc ttgcaaagtc 300  
 ccagttggat gagatactta caccggctgc ttgcaccatt ggttcatctc tcagaaatga 360  
 tcatgtcgac ttctaaggtc tggctgaanc 390

<210> 2544  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2544

nncngcacgc nnacgtaagc tcggaattcg gctcgagggg aagtttcatt ttccccagtg 60  
 ctcagccata tccccatcgc aacttttctg aggaagttgc tattcttgat ggctactttg 120  
 gcaaaacttg tgcaggaagc aatgcttata ttttggttg ccaagacaaa gcacagaact 180  
 ggcatgtcta ctctgcttct gcagattctg taactcaatg tgacaatgtt tacactcttg 240  
 agatgtgcat gactggcctg gatagagaga aagcacaggt tttc 284

<210> 2545  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2545

gtcgcnnngca cgcgtacgta agctcggaat tcggctcgag ctcagccata tccccatcgc 60  
 aacttttctg aggaagttgc tattcttgat ggctactttg gcaaaacttg tgcaggaagc 120  
 aatgcttata ttttggttg ccaagacaaa gcacagaact ggcatgtnta ctctgcttct 180  
 gcagattctg taactcaatg tgacaatgtt tacactcttg agatgtgcat gactggcctg 240  
 gatagagaga aagcacaggt tttctacaaa gaacaatctg cttcagctgc catga 295

<210> 2546



<211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2546

ngtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gtgctcagcc atatcccat 60  
 cgcaactttt ctgaggaagt tgctattctt gatggctact ttggcaaact tggcgcagga 120  
 agcaatgctt atattttggg tggccaagac aaagcacaga actggcatgt ctactctgct 180  
 tctgcagatt ctgtaactca atgtgacaat gtttacactc ttgagatgtg catgactggc 240  
 ctggatagag agaaagcaca ggttttctac aaagaacaat ctgcttcagc tggccatgat 300  
 gactgttaat 310

<210> 2547  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2547

cacttaaaant cgatgcacgc gtacgtaagc tcggaattcg gctcgagctt gcaccattgt 60  
 ttcatctctc agaaatgatc atgtcgacnc ctatgttctg tctgagtcca gtctctttgt 120  
 ttatggctta caagatcatc atcaaaacct gtggactac aaagctactg cttgcaatcc 180  
 caccatatt gaaatttgct gaaatgcttt ccctcaatgt taatctgtga attacaccag 240  
 gggaagtttc atctttcccg gtgctcagcc ctatcccat cgcaactttt ctgaggaagt 300  
 tgctattctt gatggctatt tggcaagctt agtgcaggaa gcaagcttat atttgggtgg 360  
 ccagacaaat caca 374

<210> 2548  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2548

nnntannccc canacgtcgc angcacgcnt acgtnagctc ggaattcggc tcgagntctt 60  
 ctttgttttc aatnagggtt tttgttgct ctcttcaaa ctccatcttt ccaaactctc 120

tcttttgcgat tgtgttttga tctgcttcct actgcgatag tttctctact gttacatggc 180  
catggcgggtt tccgcaattg gttttgaagg tttcgagaaa aggttggaat tctccttttt 240  
ccagccggga ctttttgctg accctgaagg aaggggtcta agggctctta caaaatccca 300  
gttggtgag attctaacac cagctgcttg caccattggt tct 343

<210> 2549  
<211> 292  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2549

nnnnnggcng acgtcgang cagcgtacg taagctcgga attcggtcg agcttacacc 60  
ggctgcttgc accattgtnt catctctcag aaatgaacat gtcgactcct atgtgctgtc 120  
tgagtncagt ctctntgttt atgcctacaa gatcatcatc aaaacctgtg gtactanaaa 180  
gctactgctt gcaatcccan ccatattgan atntgctgna atgctttccc ncaatgtnag 240  
atctngaat tacaccaggg gaagtttctt cttncccggt gtcagccct at 292

<210> 2550  
<211> 300  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2550

ngtcgcatgc acgcntacgt aagcncggga attcggtcg agcaaaatcc cagttgggtg 60  
agattctaac accagctgct tgcaccattg tntcttcgct caaaaacgat aatgtcgact 120  
cctatgtnt atctgagtcc agcctctttg tttatgccta caagatcatn atcaaaacct 180  
gtggtactac taagctattg cttgcaatcc caccatatt gaagttcgct gaaatgcttt 240  
ccctaagtgt aagtctgtga attacaccag gggaagtttc atttccccgt gtcagccat 300

<210> 2551  
<211> 291  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 2551

nngtcgcatg cacgcgtacg taagctcgga attcggctcg aggttcatgt ggatgggtgca 60  
agcaagtcgt ttgagcagac ctgctttctg gatgttaagg gatactgtcg tgaagagagg 120  
agccacgaag ggcttggaat ggggtggttct gttgtctacc aaaaattcgg gaagactagt 180  
gactgtgggtt cacctagatc aactctaaag tgctggaatg aggaagatga ggaagagtag 240  
tttccttaag tgtcttttatt attctgtcct gtgaaaataa gtctgggtttt c 291

<210> 2552

<211> 294

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2552

acgtcgcang cacgcgtacg taagctcgga attcggctcg agtccaaatc ctctctttgc 60  
gattgtgttt tgatctgctt cctactggcg atagtttctc tactgttaca tggccatggc 120  
ggtttccgca attggttttg aaggtttcga gaaaagggtg gaaatatcct ttttccagcc 180  
gggacttttt gctgaccctg aaggaagggg tctaagggtt cttacaaaat cccagttggg 240  
tgagattcta acaccagctg ctgacccat tgtttcttcg ctcaaaaacg ataa 294

<210> 2553

<211> 298

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2553

nangnacgg tncgtnacgt cacgtatanc tcggcattcg gctcgagctt tgttttcaat 60  
taggtttttt tgttgcctc cttcaaactc catctttcca aatcctctct ttgcgattgt 120  
gttttgatct gcttctact gcgatagttt ctctactgtt acatggccat ggcgggtttcc 180  
gcaattgggt ttgaagggtt cgagaaaagg ttggaaatat cttttttcca gccgggactt 240  
tttctgacc ctgaaggaag gggcttaagg gctcttacia aatcccagtt gggtgaga 298

<210> 2554

<211> 274

<212> DNA

<213> Glycine max

<400> 2554

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acgcgtacgt aagctcggaa ttcggctcga gggtgcaagc aagtcgtttg agcagacctg 60
ctttctggat gttaagggat actgtcgtga agagaggagc cacgaagggc ttggaatggg 120
tggttctgtt gtctaccaaa aattcgggaa gactagtgtgac tgtgggttcac ctagatcaac 180
tctaaagtgc tggaaatgagg aagatgagga agagtagttt ccttaagtgt cttattattc 240
tgtccttgtg aaaataagtc tggttttcca gata 274
```

<210> 2555

<211> 263

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2555

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ncgtcgcacg cacgcgtacg taagctcgga attcggctcg agggtgcaag caagtcgttt 60
gagcagacct gctttctgga tgtaaggga tactgtcgtg aagagaggag ccacgaaggg 120
cttggaatgg gtggttctgt tgtctaccaa aaattcggga agactagtga ctgtggttca 180
cctagatcaa ctctaaagtg ctggaatgag gaagatgagg aagagtagtt tccttaagtg 240
tctttattat tctgtccttg tga 263
```

<210> 2556

<211> 275

<212> DNA

<213> Glycine max

<400> 2556

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cacgcgtacg taagctcgga attcggctcg agggtgcaag caagtcgttt gagcagacct 60
gctttctgga tgtaaggga tactgtcgtg aagagaggag ccacgaaggg cttggaatgg 120
gtggttctgt tgtctaccaa aaattcggga agactagtga ctgtggttca cctagatcaa 180
ctctaaagtg ctggaatgag gaagatgagg aagagtagtt tcctaagtgt cttattattc 240
tgtcctgtga aaataagtct ggttttccag atacg 275
```

<210> 2557

<211> 280

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2557  
 gtcgcangca cgcgtacgta agctcggaat tcggctcgag gaagcaatgc ttatatatttg 60  
 ggtggccaag acaaatacaca gaactggcat gtctactctg cttctgcaga ttctgtaact 120  
 ccatgcgaca atgttttacac tctagagatg tgcattgactg gcctggatag agagaaagca 180  
 cagggttttct acaaagaaca atctgcttca gctgccatta tgactgttaa ttctggcatt 240  
 agaaaaattc ttccagattc tgagatttgt gactttgact 280

<210> 2558  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2558  
 gtcgcangcg tacgtaagct cggaattcgg ctcgagccca gttgggtgag attctaacac 60  
 cagctgcttg caccattgtt tcttcgctca naaacgataa tgcgactcc tatgttctat 120  
 ctgagtcacg cctctttgtt tatgcctaca agatcatcat caaaacctgt ggtactacta 180  
 agctattgct tccaatccca cccatattga agttcgctga aatgcttncc ttaatgttaa 240  
 gtctgtgaat acaccagggg aagtttcatt tccccagtcg tcagccatat ccccatcgca 300  
 attttctgan g 311

<210> 2559  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2559  
 ctncatgatc gtacgtnagc tcggaattcg gctcgagggt ttttttgttg ctctccttca 60  
 aactccatct ttccaaatcc tctcttttgc ttgtgttttg atctgcttcc tactgcgata 120  
 gtttctctac tgttacatgg ccatggcggg ttccgcaatt gggtttgaag gtttcgagaa 180  
 aagggttgaa atatcctttt tccagccggg actttttgct gaccctgaag gaaggggtct 240

aagggtcttt acaaaatccc agttgggtga gattctaaca ccagctgctt gc 292

<210> 2560  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2560

ggntatgcac ncgncagtgn gcncngagtt cggcncgngg ggggnnttccg naatnggttt 60  
 tgaagggtttc gagaaaaggt tggaaatatc cttnttccan nccgggactt tntgctgacc 120  
 ctgggnaggaa ggggtctaca gggctcttac aaaatcccag ttgggtgaga ttctaacacc 180  
 agctgcttgc accatgtttc ttncntcana aacgatnntg tcgactccta tgttctatct 240  
 gagtncagcc tctttgttna tgcctacaag atcatcancn anacctgt 288

<210> 2561  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2561

tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagc ncantngggg gagattcnaa 60  
 naccagctgc ttgcacnant gtttcttcgc tcaaaaaacna gcaatgtcga ctcctatgtt 120  
 ctatctgagt ccagcctctt tgtttatgcc tncaaganca tcatcaaaac ctgggtacta 180  
 ctaagctatt gcttccaatc ccacccatat tgaagttcgc tgaaatgctt tcccttaatg 240  
 ttaagtctgt gaattacacc aggggaagtt tcattttccc cagtgtcag ccatatcccc 300

<210> 2562  
 <211> 236  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2562

ncgcgtacgt aagctcggaa ttcggctcga gcagcattcg ttgcggcatt ttaatcgatt 60  
 tatccaagca ggactgaatg aactaatgga gtctaaacnc gggaaaaaga agtctagtag 120  
 tagtagtagt aaatcattgt tctacgaagc tcccctcgga tacagcattg aagacgtag 180

accaaacggt ggaatcaaga aattcagatc tgctgcttac tccaactgcg ctcgcn 236

<210> 2563  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2563

ncncgtacgt aagctcggaa ttnggctcga gctcgagncg gttcatgtgg ntngtgcaag 60  
 caatttgtnt gatcanacgt gnnttctgga tgtaagggaa tactgtcgcg aagagaggag 120  
 ccacgaaggg cttggaatgg gtggttctct tnnctacca aaaatttgcc aagacttggt 180  
 actgtgctgt cacctagatc aactctgaag tgctggaaag aggaagatga agaagagtag 240  
 ttttcttaag tgtctttatt atgtccttgc gaaaataagt ccggt 285

<210> 2564  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 2564

acgtcgcacg cacgcgtacg taagctcggaa attcggctcg agaacttttc tgaggaagtt 60  
 gctattcttg atggctactt tggcaagctt agtgcaggaa gcaatgctta tattttgggt 120  
 ggccaagaca aatcacagaa ctggcatgtc tactctgctt ctgcagattc tgtaactcca 180  
 tgcgacaatg ttacactct agagatgtgc atgactggcc tggatagaga gaaagcacag 240  
 gttttctaca aagaacaatc tgcttcagct gccattatga ctgttg 286

<210> 2565  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2565

gtcgcangca cgcgtacgta agctcggaa tctggctcgag ngttttgggt gattcaaggc 60  
 cttcacagca ttcgntgcgg cattnatn gatntntcca agcaggactg natgaactaa 120  
 tggagtctaa aggtgggaaa aagaagtcta gtagtagtag tagtanatca ttttctacga 180

agctcccctc ggntacagca ttgaagangt tagaccaaac ggtggaatca agannttcag 240  
 atctgctgct tactccaact gcgctcgcaa accttcctgn tatccatcca gattga 296

<210> 2566  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2566

ccacgcgtcc gcttcaaadc acacactctc ttcaatttct agggttttgc tattgctttg 60  
 cctccgttcc ccngntctca caaaaacaac gccttttctc ttctccttcg tatctattct 120  
 ttgcgttttg tttttggttg attgaaggca ttcacagcng taattcggtg ctgcatttta 180  
 atcgatttat ctaaccagga ctgaatgacc taatggagtc taaagggtggg aaaaagaagt 240  
 ctagtagtag tagtagtaaa tcaatttttt acgaagctcc cctcggatac agcattgaag 300  
 acgtagtagc aaacggtgga atcaagaaat tcagatctgc tgcttactct aactgttctc 360  
 gcaaaccatc ctgatacaca tccggattga tagttcggtg catgcaacca tagttttatt 420  
 aggatttttt ctcttttgnt ttcaattagg tttttttggt gctctccttc aaactccatc 480  
 tttccaaatc ct 492

<210> 2567  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <400> 2567

gtagcatgca cgcgtacgta agctcggaat tcggctcgag cgtatctatt ctttgcgttt 60  
 ggttttttgt tgattgaagg cattcacagc gtaattcggt gctgcatttt aatcgattta 120  
 tctaaccagg actgaatgac ctaatggagt ctaaagggtg gaaaaagaag tctagtagta 180  
 gtagtagtaa atcaattttt tacgaagctc ccctcggata cagcattgaa gacgtagtag 240  
 caaacggtgg aatcaagaaa ttcagatctg ctgcttactc taactgttct cgcaaacc 298

<210> 2568  
 <211> 277  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 2568

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gtcgcngcac gcgtacgtaa gctcgggaatt cggctcganc tcgagccgaa tcggctcgag 60
aganaagggtt ggaaanctcc tttannccag ccgggacttt anggctgacn ctgaagggaag 120
aggtctaagg gctcttacaa aatcccagtt ggggtgagatt ctaacaccag ctgcttgcac 180
cattgtttct tcgctcaaaa acgataatgt cgactcctat gttctatctg agtccagcct 240
cttgtttatg cctacnagat catcatcana acctgtg 277
```

<210> 2569

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2569

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ngtcgttgtn cgcgtacgtn agctcggnat tcggctcgag tttgttttca attagggtttt 60
tgtctgctct ccttcaaact ccgtctttcc gaatcctctc tttgtgattg tnttctgttc 120
tgcttcctac cgcgatagtt tctcttctga agcatggcca tggcggtttc tgcaattggt 180
tttgaagggtt tcgagaagag gctggaaaata tcctttttcc agccgggact ttttctgtac 240
cctgagggna tgggttttnag agctcttgcn aagtcccagt tggntgagat acttacaccg 300
gctgctt 307
```

<210> 2570

<211> 245

<212> DNA

<213> Glycine max

<400> 2570

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ggtttttget gctctccttc aaactccgtc tttccgaatc ctctctttgt gattgtgttc 60
tgttctgctt cctaccgcga tagtttctct tctgaagcat ggccatggcg gtttctgcaa 120
ttggttttga aggtttcgag aagaggctgg aaatatcctt tttccagccg ggactttttg 180
ctgaccctga gggaatgggt ttaagagctc ttgcaaagtc ccagttggat gagatactac 240
accgg 245
```

<210> 2571  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2571

ncncgcangc acgcgtacgt aagctcggaa ttcggctcga ggttttctcc caactgagtt 60  
 ctctgttgca gttcatgtgg atggtgcaag caagttgttt gatcagacgt gttttctgga 120  
 tgttaagggg tactgtcgcg aagagaggag ccacgaaggg cttggaatgg gtggttctct 180  
 tgtctaccaa aatttgccaa gacttggtgac tgtgggtcac ctagatcaac tctgaagtgc 240  
 tggnaagagg nagatgcaga agagtagttt tcttaagtgt ctttattatg tccttgcgaa 300  
 aataagtccg gttttccaga cagtga 326

<210> 2572  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2572

agttgcgcgn acncgtacgt aagctcggaa ttcggctcga gaaatcattg ttctangaag 60  
 ctcccctcgn atanagcatn ggngacgtta gaccaannng tggaatcaag aaattcagat 120  
 ctgntgctta ctccaaactgc gctcgcaaan ccttcctgat atccatccng attgatagtt 180  
 cattgcatgc aaccatagtt tnattaggtt ttntcttctt tgttttcaat taggtttttg 240  
 ctgctctcct tcaaaactccg tctttccgaa tcctctcttt g 281

<210> 2573  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2573

gtcgcangca cgcgtacgta agctcggaa ttcggctcga gttttttctt ctttgttttc 60  
 aattaggttt ttgctgctct ccttcaaact ccgtctttcc gaatcctctc tttgtgattg 120  
 tgttctgttc tgcttctac cgcgatagtt tctcttctga agcatggcca tggcggtttc 180

tgcaattggt tttgaagggt tcgagaagag gctggaaata tcctttttcc agccgggact 240  
 ttttgctgac cctgagggaa tgggtttaag agctcttgca aagtcccagt tggatgag 298

<210> 2574  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2574

aagggggatt ctgtangngn natngganng gacaacatan aagcgctatg acgtcgcgcatg 60  
 cacgcgtacg taagctcgga attcgggctcg agtttatgcc tacaagatca tcatcaaaac 120  
 ctgtggtacn nntaagctat tgcttgcaat cccacccata ttgaagtctg ctgaaatgct 180  
 ttcccttaat gttaagtctg tgaattacac caggggaagt ntcattttcc ccagtgtctca 240  
 nccatatacnn catcgcaagn tttntgagga agattnnant gttnttngtt antntnncnn 300  
 ncttttttnna tttacttaac ttatnatattg nncnttttat nttaagcat natnactnna 360  
 nnttttttnag gnggggtgtn tttnttnttn ntctttnttn tttttttnnn attcanttta 420  
 ttngtttntn tnttntnnnn ntnttcnttt 450

<210> 2575  
 <211> 218  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2575

annttacgnt tgaggtcang cacgcgtacg taagctcgga attcgggctcg agnttttgaa 60  
 ggtttcgaga aaagggttga aatatccttt ttccagccgg gactttttgc tgaccctgaa 120  
 ggaaggggtc taagggtctt tacaaaatcc cagttgggtg agatnctaac accanctgct 180  
 tgnancattg tntcttcgct caaaaacgat aatgtcgn 218

<210> 2576  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 2576

ccacncntcc gcaagttggt tgatcagacg tgttttctgn atgttaaggg atactgtcgc 60  
gaagnngggg gccactaagg gcttggaatg ggtggttctc tnagtctacc aaaaatttgc 120  
caagacttgt gactgngggt cacctanac aactctgaag tgctggaaaag aggaagatga 180  
anaanagtan ttttcttaag tgtctttatt atgtccttgc naaaataagt ccngttttnc 240  
agacagngat tgtttntctt tgggtgtttt tnccttttat gtttagaccat tgttagggca 300  
gtttggacct tttattgntc tactattacc atttgaacat cgatggatt ttaataaaan 360  
ananataata tnanngaaat ttatttctta ttattancct ttnatntat ttnantttta 420  
naattctn 428

<210> 2577

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2577

tcgcatgcac gcgtacgtaa gctcgggaatt cggctcgagn taatgtcgac tcctatgttc 60  
tatctgagtc cagcctctnt gtttatgcct acaagatcat catcaaaacc tgtggtacta 120  
ctaagctatn gcttgcaatc ccacccatat tgnagttcgc tgaaatgctt cccttaatgt 180  
naagtctgtg aattacacca ggggaagnnt cattttcccc agtgcncagc canatnccna 240  
tcgcaanttt tnngaggnag tcnccattcc tggatngcct actttggcaa acttgggtgcg 300  
gangcaatgc tt 312

<210> 2578

<211> 261

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2578

gtcgcacgca gcgtacgtaa gctcgggaatt cggctcgagc agccatatcc ccatcgcaac 60  
ttttctgagg aagttgctat tcttgatggc tactttggca aacttgggtc aggaagcaat 120  
gcttatatnt tgggtggcca agacaaagca canaactggc atgtctactc tggcttctgc 180

agattctgaa ctcaatgtgc caatgnttac actcntgagn tngggcatga ctggctggat 240  
agagagaang cncaggtttt c 261

<210> 2579  
<211> 279  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2579

gtcgcgatgca cgcgtacgta agctcgggaat tcggctcgag taaagggtggg aaaaagaagt 60  
ctagtagtag tagtagtaaa tcaatttttt acgaagctcc cctcggntac agcattgaag 120  
acgtttagacc aaacggtgga atcaagaaat tcagatctgc tgcttactct aactgttctc 180  
gcaaaccatc ctgatacaca tccggattga tagttcgttg catgcaacca tagttttatt 240  
aggatttttc tcttgttttc aattaggttt ttttgttgc 279

<210> 2580  
<211> 234  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2580

tcgangcacg cgtacgtaag ctcggaattc ggctcgagaa gcaatgctta tattttgggt 60  
ggccaagaca aagcacagaa ctggcatgtc tactctgctt ctgcagattc tgtaactcan 120  
tgtgacaatg ttacactct tgagatgtgc atnactggcc tggatagaga gaaagcacag 180  
gttttcnaca aagaacaatc tgcttcagct gccatgatga ctgnaannc cggc 234

<210> 2581  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2581

gcatgcacgc gtacgtaagc tcggaattcg gctcgagnnt cttctttgtt ttcaattagg 60  
tttttttgtt gctctccttc aaactccatc tttccaaatc ctctctttgc gattgtgttt 120  
tgatctgctt cctactgcga tagtttctct actgttacat ggccatggcg gtttccgcaa 180

ttggttttga aggttttcgag aaaagggttg aaatatcctt ttccagccgg gactttttgc 240  
 tgaccctgaa ggaaggggtc taagggtctt tacaaaatcc cagttgggtg agatctaaca 300  
 ccagcn 306

<210> 2582  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2582

agtcgcatgc acgcgtacgt aagctcggaa ttcggctcga ngccttcaca gcattcgttg 60  
 cggcatttta atcgatttat ccaagcagga ctgaatgaac taatggagtc taaagggtggg 120  
 aaaaagaagt ctagtagtag tagtagtaaa tcattgttct acgaagctcc cctcgggtaca 180  
 gcattgaaga cgtagacca aacggtggaa tcaagaanct tcagatctgc tgcttactcc 240  
 aactgcgctc gcaaaccttc ctgatatcca tccggttgat agttncattg catgcnacca 300

<210> 2583  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2583

cgtcgcgtgc ncgcgtacgt aagctcggaa ttcggctcga ggttttattn ggattttntc 60  
 ttctttgtnt tcaattaggt ttttttgttg ctctccttac aaactacat actttccaaa 120  
 tcctctcttt gcgatttgtt tttgatctgc ttcctactgc ganagtatcn ctactgttac 180  
 atggccatgg cggtnnccgc aattggtttt gaaggtttcg agaaaagggtt ggaaatatcc 240  
 ttttnccagc cgggactttt tgctgaccct gaaggaaggg gtctaagggc tc 292

<210> 2584  
 <211> 153  
 <212> DNA  
 <213> Glycine max  
 <400> 2584

catgcacgcg tacgtaagct cggaattcgg ctcgagctca gaaatgatca tgctgactcc 60

tatgttctgt ctgagtcag tctctttgtt tatgcctaca agatcatcat caaaacctgt 120  
 ggtactacaa agctactgct tgcaatccca ccg 153

<210> 2585  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2585

tnnaactnta cgcgcccagg taccggtcaa agaattcccg ggtcgaccca cgcgtcngta 60  
 cggctgcgag aagacgacag aagggtagcg ctgcgagaag acgacagaag gggacacgca 120  
 actatttctg actacgtttt gctctacgcc tctccctctc tctcaaaaat cgttctcttc 180  
 gattttagggt ttttgttttg ctgctgcctc cgttcccccc ttctcataaa caacgcgttt 240  
 tctcttctgc ttcgtatcta ttctttgctt ttggttttgg ttgattcaag gccttcacag 300  
 cattcgttgc ggcatittaa tcgatttatc caagcaggac tgaatgaact aatggagtct 360  
 aaaggtggga aaaagaagtc tagtagtagt agtagtaaat cattgttcta cgaagctccc 420  
 ctcggataca gcattgaaga cgtagacca aacggtggna tcaaagaaat tcaa 474

<210> 2586  
 <211> 80  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2586

cagccctatc cccatcgcaa cttttctgag gaagttgcta ttcttgatgg ctacttnggc 60  
 aagcattgct ngnnagnngg 80

<210> 2587  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2587

tcgcatgcan ncgtagnaat aagctcnana attcggctcg agggcntgga atgggtggtt 60

ctctngtnta ncaaaaacct gccaaagactt gtgactgtgg ttcacctaga tcaactctga 120  
 agtgctggaa agaggaagat gaagaagagt agttttctta agtgtcttta ttatgtcctg 180  
 cgaaaataag tccggttttc cagacagtga ttgtttttct ttgggtgtttt ttccctttta 240  
 tgtagacca ttgttagggc gtttggacct ttattgttc tactattacc attgaacatc 300  
 gaa 303

<210> 2588  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2588

ctgcacgcgt acgtaagctc ggaattcggc tcgagggaaa caagtcgttt gagcagacct 60  
 gctttctgga tgtaaggga tactgtncgt gaagagagga gccacgaagg gcttggaatg 120  
 ggtggttctg ttgtctacca aaaattcggg aagactantg actgtggtca cctagatcaa 180  
 ctctaaagtg ctggaatgag gaagatgagg aagagtagtt tccttaagtg tctttattat 240  
 tctgtccttg tgaaaataag tctggtt 267

<210> 2589  
 <211> 225  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2589

ttcaatttct agggttttgc tatacgcttt gcctccgttc cccctttctc acaaaaacaa 60  
 cgcttttct cttctccttc gtatctattc tttgcnttn gtttttggtt gattgaacgg 120  
 cattcacagc gtaattggtg ctgcattttn atcgatttat ctaancagga ctgantgacc 180  
 taatggagtc taaaggtggg aaanagaagt ctagtagtag tagta 225

<210> 2590  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2590



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agcccacgcg tccgtacggc tgcgagaaga cgacagaagg ggacacgcaa ctatttctga 120  
ctacgttttg ctctacgcct ctccctctct ctcaaaaaatc gttctctgnc gatttttaggg 180  
tttcgttttg ctgctgcctc cggtcccccc ttctcataaa caacgcgttt tctcttctgc 240  
ttcgtatcta ttctttgctt ttggttttgg ttgattcaag gccttcacag cattcgttgc 300  
ggcattttta tcgatttatc caagcaggac tgaatgaact aatggagtct aaagggtggga 360  
aaaagaagtc tagtagtagt agtagtaaat cattgttcta cgaagctccc ctcggataca 420  
gcattnaaag aacttnngac caaacggtgg aatcaaggaa attcagatc 469

<210> 2591  
<211> 298  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2591

cacatgcacg cgtacgtaag ctcggaattc ggctcgaggt tttattagga ttttntcttc 60  
tttgttttca attaggtttt ttgttgctc tccttcaaac tccatctttc caaatcctct 120  
ctttgcgatt gtgttttgat ctgcttccta ctgcgatagt ttctctactg ttacatgcca 180  
tggcggtttc cgcaattggg tttgaagggt tcgagaaaag gttggaaata tccttttcca 240  
gccgggactt tttgctgacc ctgaagggaag gggcttaagg gctctacaaa acccagtt 298

<210> 2592  
<211> 275  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2592

anacactctc ttgcaatttc tagggttttg gtattgcttt gcctccgttc cccctttctc 60  
ncaaaaaanaa cgnnttttct cttctccttc gtatctattc tttgcntntc gctttnggnt 120  
gantnaaggc attcanagcg taattingtn ctgcattttt atcgatttct ctaancagg 180  
ctgantganc taatggagtc taaagggtgg anaaagaagt ntagtagtan tagtagtaaa 240  
tgcntttnt acgnagctcc cctcggatac agcat 275

<210> 2593  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2593

cgcgnnccgtn ngctcgggaat tcggctcgag cgcaaaccat cctgatacac atccggattg 60  
 atagttcggt gcatgcaacc atagttttat taggattttt ttttctttgt tttcaattag 120  
 gtttttttgt tgctctcctt caaactccat ctttccaaat cctctctttg cgattgtgtt 180  
 ttgatctgct tcctactgcy atagtntctc tactgttaca tggccatggc ggtttccgca 240  
 attggttttg aaggtttcga gaaaagggtt 269

<210> 2594  
 <211> 155  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2594

acgncgcacc nacgcgtacg taagctcgga attcggctcg aggtggtact acaaagctac 60  
 tgcttgcaat cccaccata ttgaaatttg ctgaaatgct ttccctcaat gttagatctg 120  
 tgaattacac caggggaagt ttcattcttc ccggn 155

<210> 2595  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2595

naaagtcgca ngcacgcgta cgtaagctcg gaattcggct cgagttcaaa tcacacactc 60  
 tcttcaattt ctagggtttt gctattgctt tgctccgtt ccccttttct cacaaaaaca 120  
 acgccttttc tcttctcctt cgtatctatt ctttgcgttt ngntttnggt tgattgangg 180  
 cattcacagc gtaattngtt gctgcatttt aatcgattta tctaaccagg actgaatgac 240  
 ctaatggagt ctaaagggtg gaaaaagaag tctagtagta gtagtagtaa atcaattttt 300

n

301

<210> 2596  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2596

gtcgcacatgca cgcnaacgta agctcgggaat tcggctcgag gattgccttc aaatcacaca 60  
ctctcttcaa tttctagggt tttgctattg ctttgcctcc gttccccctt tctcacaaaa 120  
acaacgcctt ttctcttctc cttcgtatct attctttgcg nttggttttt ggttgattga 180  
aggcattcac agcgtaattn gttgctgcat tttnatcgat ttatctaacc aggactgaat 240  
gacctaattgg agtctaaagg tgggaaaaag aagtctagta gtagtagtag taaatcaatt 300  
tattacgaag c 311

<210> 2597  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2597

ncnnntgcac gcgtacgtaa gctcgggaatt cggctcgagg attgccttca aatcacacac 60  
tctcttcaat ttctaggggt ttgctattgc tttgcctccg ntcccccttt ctcacaaaaa 120  
caacgccttt tctcttctcc ttcgtatcta ttctttncnt ttngntttng gttgattgaa 180  
ggcattcaca gcgtaattng ttgctgcatt tnnatcgatt tatctaacca ggactgaatg 240  
acctaattgga gtctaaagggt gggaaaaaga agtctagtag tagtagtagt aaatcaattt 300  
tttacgaagc tccc 314

<210> 2598  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2598

cgtagcgaag ctcggaattc ggctcgagat cacacactct cttcaatttc tagggttttg 60

ctattgcttt gcctccgttc cccctttctc acaaaaaacaa cgctttttct cttctccttc 120  
gtatctattc tttgcntttt gtttttggtt gattganggc attcacagcg taattngttg 180  
ctgcatttnn atcgatttat ctaaccagga ctgaatgacc taatggagtc taaaggtggg 240  
aaaaagaagt ctagtagtag tagtagtaaa tcaatctttt acgaagctcc cctcggatac 300  
agca 304

<210> 2599  
<211> 238  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2599

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gcctccgttc cccctttctc acaaaaaacaa cgctttttct cttctccttc gtatctattc 120  
tttgcgtttg gtttttggtt gattganggc attcacagcg taattngtng ctgcatttna 180  
atcgatttat ctaaccagga ctgaatgacc taatggagtc taaagnnggg aaaaagaa 238

<210> 2600  
<211> 274  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2600

gtacgtnagc tcggaattcg gctcgagnag aaattcagat ctgctgctta ctctaactgt 60  
tctcgcaaac catcctgata cacatccgga ttgatagttc gttgcatgca accatagttt 120  
tattaggatt ttttcttctt tgttttcaat taggtttttt tgttgctctc cttcaaactc 180  
catctttcca aatcctctct ttgcgattgt gttttgatct gcttcctact gcgatagttt 240  
ctctactgtt acatggccat ggcggtttcc gcaa 274

<210> 2601  
<211> 257  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 2601

caaganattc agatctgctg cttactctaa ctgttctcgc aaaccatcct gatacacatc 60  
cggattgata gttcgttgca tgcaaccata gttttattag gatttnttct tctttgtttt 120  
caattagggtt tttttgttgc tctccttcaa actccatctt tccaaatcct ctctttgcga 180  
ttgtgttttg atctgcttcc tactgcgata gttnctctac tggtacatgg ccatggcggt 240  
ttccgcaatt ggntntg 257

<210> 2602

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2602

acgttttgct ctacgcctct cctctctct caaaaaatcgt tcncttcgat tttagggttt 60  
tgtttngctg ctgcctccgt tcccccttc tcataaaciaa cgcgttttct cttctgcttc 120  
gtatctattc tttgcttttg gttttggttg attcaaggcc ttcacagcat tcgttgcggc 180  
attttaatcg atttatccaa gcaggactga atgaactaat ggagtctaaa ggtgggaaaa 240  
agaagtctag tagtagtag 259

<210> 2603

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2603

cgcacctctt tctgattgcc ttcaaatcac acactctctt caatttctag ggttttgcta 60  
ttgctttgcc tccgttcccc ctttctcaca aaaacaacgc cttttctctt ctccttcgta 120  
tctattcttt gcgtttggtt tttggttgat tganggcatt cacagcgtaa ttngttgctg 180  
catttnaatc gatttatcta accaggactg aatgacctaa tggagtctaa aggtgggata 240  
nagaag 246

<210> 2604

<211> 310

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2604

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annctcatgc acgcgtacgt aagctcggaa ttcggctcga gacgttttgc tctacgcctc 60
tccctctctc tcaaaaatcg ttctcttcga ttttaggggt ttgttttgct gctgcctccg 120
ttccccctt ctcataaaca acgcgttttc tcttctgctt cgtatctatt ctttgctttt 180
ggttttgggt gattcaaggc cttcacagca ttcgttgcgg cattttaatc gntttatcca 240
agcaggactg aatgaactaa tggagtctaa aggtgggaaa aagangtcta gtagtagtat 300
agtaaatacat 310
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<210> 2605

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2605

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tcaaaaatcg ttctcttcga ttttaggggt ttgttttgct gctgcctccg ttccccctt 120
nctcataaac aacgcgtttt ctcttctgct tcgtatctat tctttgcttt tggttttgggt 180
tgattcaagg cttcacagc attcgttgcg gcattttaat cgatttatcc aagcaggact 240
gaatgaacta atggagtcta aaggtgggaa aaagaagtct agtagtagta 290
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<210> 2606

<211> 333

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2606

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nanatgnacg cgtacgtaag ctcggaattc ggctcgagct ttctgattgc cttcaaatca 60
cacactctct tcaatttcta gggttttgct attgctttgc ctccgttccc cttttctcac 120
aaaaacaacg ctttttctct tctccttcgt atctattctt tgcgtttgggt tttcggttga 180
ntgaaggcat tcacagcgta attingttgct gcatttinnat cgatttatct aagcaggact 240
gantgagcca atgngtcta aangtgggaa aaagaagtct agtngtagta gtagtaaatc 300
```

aatttttttac gaagctcccc tcggatacag cat 333

<210> 2607  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2607

gcacgcgtac gtaagctcgg aattcggcnt cgagngattg ccttcaaadc acacactctc 60  
 ttcaattttct aggggttttgc tattgctttg cctccgttcc cccttttctca caaaaaacaac 120  
 gccctttctc ttctccttcg tatctattct ttgcgtttng ctttngggtg actganggca 180  
 ttcacagcgt aatnngttgc tgcattttta tcgatttatc taancaggac tgantgacct 240  
 aatggagtcc aaagggtggga aaaagaagtc tagtagtagt agtagtaaata caatttttta 300  
 cgaagcnccc ctg 313

<210> 2608  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2608

accangcacg cgtacgtaag ctccgganttc ggctcgagtc tacgcctctc cctctctctc 60  
 aaaaaatcggt ctcttcgatt ttagggtttt gttttgctgc tgccctccgtt ccccccttct 120  
 cataaacaac gcgttttctc ttctgcttcg tatctattct ttgcttttgg ttttggttga 180  
 ttcaaggcct tcacagcatt cgttgcggca ttttaaatga tttatccaag caggactgaa 240  
 tgaactaatg gagtctaaag gtgggaaaaa naagtctagt agtagt 286

<210> 2609  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2609

ncgtcgcang cacgcgtacg tnagctcggc attcggctcg agnnttgctc tacgnctctc 60

cctctctctc aaaaatcggt ctcttcgatt ttagggtnnt gttttgctgc tgcctccggt 120  
 ccccccttct cataaacaac gcgttttctc ttctgcttcg tnttattctn gcgcttttgg 180  
 gatnggttga ntnaaggcct ncanagcatt cgntgcggca ttctaatacga nttatccaan 240  
 caggngctgaa tnaactantg gagtctaaag gnnggacaaa gaagtctagt ngtngtagna 300  
 gtaaaancatt g 311

<210> 2610  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2610

ngtcnnangc acgcntacgt nagctcggna ttcggctcga gntctgacta cgttttgctc 60  
 tacgcctctc cctctctctc aaaaatcggt ctcttacgat ttaggggttt ngttttgctg 120  
 ctgntccgn tcccccttg ctcataaaca acgcgttttc ncntctgctt cgtatctatt 180  
 ctttgcntnn ggntttggtt gattcaaggc cttcacagca ttcgtngcgg catttnaatc 240  
 gatttatcca agcangactg aatgnactaa tggagtctaa aggtgggaaa aagaagtcta 300  
 gtagtg 306

<210> 2611  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2611

gtcgcangca gcgtacgtaa gctcggaatt cggctcgagc gcctctccct ctctctcana 60  
 aatcgttctc ttcgatttta gggntttggt ttgctgctgc ctccgttccc cccttnctca 120  
 taaacaacgc gttttctctt ctgcttcgta tctattctac gcttttggtt ttggttgatt 180  
 caaggccttc acagcattcg ttgnggcatt tnaatcgatt tatccaagca ggactgaatg 240  
 aactnatgga gncataaagg gggaaaaagc agtnntagtag cngtagcagt nacncatgtn 300  
 ntcagnagcn ccnngc 316

<210> 2612



<211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2612

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 accattgttt cttogetcan aancnntnaa tgtcgantcc tatgttctat ntgngtccag 120  
 cctgctttgt ttatgtcnta naagatcatc atcgcaacct gtggtinctac tangctattg 180  
 cttgnaatcc cacccatatt gnngttcgct ganatgcttt ccctgaatgt taagtctgtg 240  
 aattacacca agggaagttt cattttnnnc atgctcagnc atntccccgt cgcaactttt 300  
 ctgaggaagn tgctattctt ggatggcta 329

<210> 2613  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2613

agtctcatgc acgentacgt nnagctcgga attcggctcg agtgcaacca tagttttatt 60  
 aggatttttt ctcttttggt ttcaattagg tttttttggt gctctccttc aaactccatc 120  
 tttccaaatc ctctctttgc gattgtggtt tgatctgctt cctactgcga tagtttctct 180  
 actgttacat ggccatggcg gtttccgcaa ttggttttga angtttcgag aaaagggttg 240  
 aaatatcctt tttccagccg ggactttttg ctga 274

<210> 2614  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2614

tcgcatgcac gcgtacgtaa gctcggaatt cggtcgcagc tttctgattg ccttcaaatc 60  
 acacactctc ttcaatttct aggnttttgc tattgctttg cctccgttcc ccttttctca 120  
 caaaaacaac gccttttctc ttctccttcg tatctattct ttgcgttttg tttttggttg 180  
 attgaaggca ttcacagcgt aatnngttgc tgcattttta tcgatttatc taaccaggac 240

tgaatgacct aatggagtct aaagntggga aaaag

275

<210> 2615

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2615

ncgcangcac gcgtacgtaa gctcgggaatt cggctcgagn tgccttcaaa tcacacactc 60

tcttcaattt ctagggtttt gctattgctt tgcctccggt ccccttttct cacaaaaaca 120

acgccttttc tcttctcctt cgtatctatt ctttgcgctt ggcttaggnt gactganggc 180

attcacagcg taattcggtt ctgcatttta atcgatttat ctaaccaggnt ctgantganc 240

tantgggctc taaagggtggg aaaaagaagt ctaagtagta gtagagtaaa tcaantnncc 300

nc 302

<210> 2616

<211> 294

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2616

cgnangcaca cgtacgtaag ctcggaattc ggctcgagnt ttagggtttt gttttgctgc 60

tgcctccggt ccccttttct cataaacaac gcgtttttct ttctgcttcg tatctattct 120

ttgcttttng ttttggttga ttcaaggcct tcacagcatt cgttgcggca ttttaatcga 180

tttatccaag caggactgaa tgaactaatg gagtctaaag gtgggaaaaa gaagtctagt 240

agtagtagta gtaaatacatt gttctacgaa gctcccctcg gatacagcat tgaa 294

<210> 2617

<211> 320

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2617

actnnaagtc gcatgcacgc gtacgtaagc tcggaattcg gctcgagctt tctgattgcc 60

ttcaaatacac acactctctt caatttctag ggttttgcta ttgctttgcc tccgttcccc 120  
ctttctcaca aaaacaacgc ctttnntctt ctccttcgta tctattcttt gcgnntngnt 180  
ntnggttgat tganggcatt cacagcgtaa ttngttgctg catttnaatc gatttatcta 240  
accaggactg aatgacctaa tggagtctaa anntggggaa aangaagtct agtagtagta 300  
gtagtaaatc aatttntacg 320

<210> 2618  
<211> 260  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2618

ncntcgcatg cacgcgtacg taagctcggg attcggctcg aggttcccc cttctcataa 60  
acaacgcgtt ttctcttctg cttcgtatct attctttgct tttggttttg gttgattcaa 120  
ggccttcaca gcattcgttg cggcatttta atcgatttat ccaagcagga ctgaatgaac 180  
taatggagtc taaagggtggg aaaaagaagt ctagtagtag tagtagtaaa tcattgttct 240  
acgaagctcc cctcggatac 260

<210> 2619  
<211> 285  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2619

nagtcgcatg cacgcgtacg taagctncgg aattcggctc gaggtcttac gcctctccct 60  
cnatctcaaa aatcgtgctc ttcgatttta gggttttggn ttgctgctnc ctccgttcnc 120  
cccttctcat aaacaacgnc gttttctctt ctgnntcgta tctattcttt gcttttggtt 180  
ttggttgatt caaggccttc acagcattcg gtgcggcatt ttaatcgatt tatccaagca 240  
ggactgaatg aactaatgga gtctaaagggt gggaaaaaga agtct 285

<210> 2620  
<211> 304  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        2620

```

atacgcacatgc acgcgtacgt aagctcggaa ttcggctcga gatttctgac tacgttttgc   60
tctacgcctc tccctctctc tcaaaaaatcg ttctcttcga ttttaggggtt ttgttttgct  120
gctgcctccg ttccccctt ctcataaaca acgcgttttc tcttctgctt cgtatctatt  180
ctttgctttt ggttttgggt gattcaaggc cttcacagca ttcgttgagg cattttaatc  240
gatttatcca agcaggactg aatgaactaa tggantcnaa nggtgggaaa aagaagtcta  300
gtag                                                                 304
  
```

<210>        2621  
 <211>        405  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2621

```

gcttctgtcc atccctgtca ttctcaagtt ggctgatgct cttgacatag ctgtgaaatc   60
tgtgaggtac actcgtggaa gcttcatttt ccctggggca cagtcttttc ctcaccgcag  120
tttttccgag gaggtttctg ttcttgacag ctatttcagc aaccttggtt ctggtagcaa  180
agcatatgtt atgggtgacc cttcaaagtc acagatttgg cacatctact ctgcaagtgc  240
acagacaaaa ggatcatctg aagctgtcta tggcctagag atgtgcatga ccggtttaga  300
caaggaaagt gcttctgtgt ttttcaagga gaatacatct tcagcagctt caatgaccga  360
aaattctgga attangaaga ttcttccaca gtctgatata tctga                    405
  
```

<210>        2622  
 <211>        299  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2622

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gtcgcacatgca cgcgtacgta agctcggaa tnggctcgag ctcgagccgc cctgtcattc   60
tcaagttggc tgatgctctt gacatagctg tgaaatctgt gaggtacact cgtggaagct  120
tcattttccc tggggcacag tcttttctc accgcagttt ttccgaggag gtttctgttc  180
ttgacagcta tttcagcaac cttggttctg gtagcaaagc atatgttncg ggtgaccctt  240
  
```

caaagtcaca gatttggcac atctactctg caagtcaca gaccaaagga tcatctgaa 299

<210> 2623

<211> 200

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2623

ngtacgtaag ctcggaattn ggctcgagnn tcaagttggg ntgatgctct tgacatagct 60

gtgaaatctg tgaggtagac tcgtggaagc ttcattttcc ctggggcaca gtcttttcct 120

caccgcagtt tttccgagga ggtttctgtt cttgacagct atttcagcaa ccttggttnt 180

ggtagcaaag catatgttat 200

<210> 2624

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2624

gtnncatgca cggttacgta agctcggaat tcggctcgag ctgagaatgg gatggtgagt 60

agtgaggggtg aaaccagttt cacttggtgc atgaagtttg gtggctcctc tgtggcttct 120

gctgatagga tgaaagaggt ggctaccctt atattgagtt tttccgagga gaggcctatt 180

gttggttctct ctgctatggg aaaaacaaca aacaagcttt tgctggctgg agagaaagct 240

gtgagttgtg gtgttatcaa tgtatcaagt attgaggagc tttgctttat aaaagacctg 300

catctaagga ctgtggatca gcttggtg 328

<210> 2625

<211> 254

<212> DNA

<213> Glycine max

<400> 2625

caaatgcgga cattttggaa gcaacttatt cggcagtcgc caagagatta catggtgatt 60

ggctctctga tcctgcaatt gcaattgtta caggcttcct tggaaaggcc cagaaatcat 120

gtgcagtgac aacactgggt agaggggggca gtgatttgac agctacagca attgggaaag 180

cactaggggtt acctgagatc caggtatgga aggatgttga tgggtgtccta acctgtgatc 240  
 caaatatata ccca 254

<210> 2626  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2626

gagtcgcang cacgcgtacg taagctcgga attcggctcg agcaatattc gaagagttag 60  
 gtatatcagt tgatgttgta gctacaagtg aagttagtat ttccttgaca ttggatccat 120  
 caaagctatg gagcagagaa ctaattcaac aggaacttga ctatgttgtc gaagaactgg 180  
 aaaaaattgc agtagtaaata ctcttaaaga ccagatccat aatctctctc attggaaatg 240  
 ttcagagatc atcactaata ttggagaagg cctttcatgt tcttcgaact cttgggg 297

<210> 2627  
 <211> 299  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2627

gtcgcangca cgcgtacgtn agctcggaat tcggctcgag gtggtgttac taatgtgtca 60  
 agtattgagg agctttgctt tataaaagat ctgcatctaa ggnctgtgga tcagcttggt 120  
 gtggacggat ctgttattgc aaagcatcta gaagaattgg agcaacttct gaaggggata 180  
 gctatgatga aagaattgac taaaaggact caggactatt tagtctcctt ggagaatgca 240  
 tgtcgactag gatcttgctg gcatacttta acaaaatagg tgtcaaggcc gccatacga 299

<210> 2628  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2628

tncacgcgta cgtaagctcg gaattcggct cgagcagata tgatgtatga ccttatccac 60

aaggctcaat caanagatga gtcttataca gctgcattaa atgctgtttt ggagaagcac 120  
 agtgcaactg cacatgacat acttgancgg agataatctt gctactttct tgtctaaatt 180  
 gcatcatgat attagtaacc ttaaggcgat gcttcgtgca atatacatag ctggcatgc 240  
 aacagagtcc ttacagattt tgttgaggga catggagaat aggtct 286

<210> 2629  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2629

gtcgcgtacg tnagctcgga attcggctcg agcaggcctc aaccctgaaa gaagaattca 60  
 acattgattt gcgtgtaatg ggcatacttg gttcanagtc aatgcttctt agtgatgtgg 120  
 gcattgactt agctagatgg agagaacttc gagaggaaa aggagaagtg gctaattgtg 180  
 aaaaatttgt tcaacatgta catggaaatc attttataacc aaacacagca ttagtggact 240  
 gcacagctga ctctgccatt gctggctatt actatgactg gttgcgcaa 289

<210> 2630  
 <211> 168  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2630

angcacgcgt acgttagctc ggaattcggc tcgagngcaa atggatggat acaagggatg 60  
 tccttatcgt aaatcctact ggttctaadc aagttgatcc tgactatttg gaatctgagc 120  
 aaagacttga aaaaatggtag tctttgaatc catgtaaggt aatcattg 168

<210> 2631  
 <211> 207  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2631

gtcgcgatgct cgcgtacgtg ggnnccggggn tnnnnnnant tnnccatactt ttggtgctcn 60  
 ggtcctgcat ccncngtcta tgagacctgc tanagaaaagt gatattcctg ttaggggttaa 120

aaattcctac aaccctaaag ctccaggtac tctcnttgct nnnnacgngg gatattgnca 180  
 gggctttttt acctnccttt ttggag 207

<210> 2632  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2632

gtcgcangca cgcgtacgtn agctcggaat tcggctcgag ggtggctttg cggatattga 60  
 aacgagttac acgtgtgtca tgaagtttgg cggctcctct gttgccaatg cagaaaggat 120  
 gagagagggt gccaacctta ttctgagctt cccggaagag aggcctataa ttgtntctct 180  
 tgccatggga aagacaacta acatgctgtt gctggctgga gaaaaagctg taagctgtgg 240  
 nataactang gnngatagtt tgacgnannng gttttnaaaa attggnatcc ggg 293

<210> 2633  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
 <400> 2633

gtagatgtga aacctgggtg gtccttggag gaaaaacaac tacccaaagg agaaacttgg 60  
 tctgttcaca aatttgggtg aacctgtgtg ggaacctctc aaagaataaa aaatgttgct 120  
 gacataattc ttaaggatga ttcggggaga aaattgggtg ttgtctctgc aatgtcaaag 180  
 gtgaaaaata tgatgtatga cttatccac aaggctcaat cacgcgatga gtcttatata 240  
 gctgcattgg attctgttta ggagaagcac 270

<210> 2634  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2634

nncacncgca cgcacgcgta cgtaagctcg gaattcggct cgagcccgga aatcatgtgc 60  
 agtgacaaca ctgggaagag ggggcagtga tttgacggct acaacaattg ggaaagcact 120



agggttgccct ganatccagg tatggaagga tgttgatggt gtcctaacct gtgatccaaa 180  
tatataccca aaagcagaac ctgttcctta tttgacattt gatgaggctg cagaactagc 240  
ttacttttggg gtcaggttc tacatccaca gtctatgaga cctgccagag aaagtgatat 300  
tcctgttagg gtt 313

<210> 2635  
<211> 322  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2635

gtcgcangca tcgtacgtna gtcggaatt cggctcgagn taaaaggact caggactatt 60  
tagtntcctt tggagaatgc atgtnnacaa ggatctttgc nggnacatnc gnaanaaaat 120  
aggtgtcaag gtcgccaat atgatgcatt tganattggt tttataanca actgacgact 180  
tcacanatgc ggacattttg gnngccactt atccagctgt tgcanagagn ttgcatggtn 240  
antagctctc cgctcctgca attgcaattg cnacggctcc ttggaaaaggc ccggaactca 300  
ngtgcantnc caaactggg ac 322

<210> 2636  
<211> 310  
<212> DNA  
<213> Glycine max  
<400> 2636

gtcgcacatgca cgcgtacgta agctcggaat tcggctcgag ctacaagtga agtcagtgtt 60  
tccttgacat tggatccatc aaagctatgg agcagagagc taattcagca ggaacttgac 120  
catgttgtag aagaactcga gaaaatcgct gtggtgaatc tcctgcagaa tagatccatc 180  
atctctctca ttggaaatgt tcagagatca tactaatat tggagaagggt tctgtattat 240  
gtccctttta tttaaattag ttcatatcct aactttcact tatgtataaa gatttactga 300  
atttattaca 310

<210> 2637  
<211> 438  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2637

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ccacgcgtcc gtcccaaadc tggaagaata tcttggaag caggctcttag aggctgtttc 60
attgattgaa gttagaaggc acttcattga agcattatcc agtccgtttg gaaggccagt 120
tgaagctgat gctgtctttt gcaggaaggc aacttttctt gctgcatctg gtgttttcac 180
gttcctgaag cagaagaaat accgtgtgac agaaatgttg ggatccaatt gcaagatatg 240
ggacttgagt tccacattgg aagtaatgag attctaattg gggttttata agaccttggg 300
ctctctgact acaatgatta gcttttgtgg tatgattcac tcaaagttct tatcaattgg 360
tattagagct tttcattatg tctntcaact ncaaaacanc nacntgggtg aataccttca 420
aattnact gttnaagt 438
```

<210> 2638

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2638

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tgcangcacg cgtacgtaag ctcggaattc ggctcgagnt tactcctaac aagaaggcaa 60
attcaggacc acttgatcag tatttgaagt taagagctct tcaaaggcaa tcctatacac 120
attacttcta tgaagcaact gtcggagctg gtcttccaat tgtagcact ttacgtggcc 180
tccttgaaac tggagacaaa atattacaaa tcgaaggcat ctttagtggg actttgagtt 240
acataattta taactttaaa gatggccggg cttttagtga ggtagtttct gaagcaaagg 300
aagcaggtta tactgagcca gatccaaga 329
```

<210> 2639

<211> 256

<212> DNA

<213> Glycine max

<400> 2639

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cagtatttga agttaagagc tcttcaaagg caatcctata cacattactt ctatgaagca 60
actgttggag ctggtcttcc aattgttagc actttacgtg gcctccttga aactggagac 120
```

aaaatactgc aaatcgaagg catcttttagt gggactttga gttacatatt taataacttc 180  
aaagacggcc gggcttttag tgaggtagtt tctgaagcaa aggaagcagg ttatactgag 240  
ccagatccaa gagatg 256

<210> 2640  
<211> 285  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2640

gtcgnnnntnn gggtagctga gctcgggnatt cggctcgagg ggcagtatta acaagcattg 60  
ttttgaaacg taatgtgacc atgttgata tagcaagcac tcgcatgctt ggtcngtatg 120  
gtttccttgc taaggngttt tcaatctttg aagagttagg catatcagtt gatgtttag 180  
ctacaagtga agtcagtggt tccttgacac tggnnccatc aaagctatgg agcagagagc 240  
taattcagca ggcaagtga cttgaccatg ttgtagaaga actcg 285

<210> 2641  
<211> 282  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2641

cgcnngnttg tacgtnagct cggnatctcg ctcgagggca gtattaacaa gcattgtttt 60  
gaaacgtaat gtgaccatgt tggatatagc aagcactcgc atgcttggtc agtatggttt 120  
ccttgctaag gtgttttcaa tctttgaaga gttaggcata tcagttgatg ttgtagctac 180  
aagtgaagtc agtgtttcct tgacactgga tccatcaaag ctatggagca gagagctaata 240  
tcagcaggca agtgaactga ccatgttgta gaagaactcg ag 282

<210> 2642  
<211> 527  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2642

gnngnnaggc tgnntttngg aannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

```

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nncgagcaat aattgttctc tctgccatgg 120
gaaagacaac taacatgctt ttgctggctg gagaaaaagc tgtaagctgt ggagtaacta 180
atgctgatag tattgatgag ctcaacatag taaaagatct tcatctcagg actgtggaac 240
agcttggagt ggacagaaat gttattgaga agcatctaga agaattggag caacttctaa 300
aggggatagc tatgatgaaa gagttgactc cacggactca agactattta gtttcatttg 360
gagagtgcac gtccactagg atatttgctg catatcttaa tacattagga gttaaggccc 420
gccaatatga tgcatttgag atgggtatta taacaactga tgacttcaca aatgctgaca 480
ttttggaagc aacatatcct gctgttgcaa aaaggttcat aantgat 527

```

```

<210>      2643
<211>      291
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      2643

```

```

nttcgcangc acgcgtacgt aagctcggaa ttcggctcga ggttgccaac cttattctga 60
gcttccccga agagaggcct ataattgttc tctctgccat gggaaagaca actaacatgc 120
tgtngctggc tggagaaaaa gctgtaagct gtggagtaac tatggctgat agtattgacg 180
agctcagcat tataaaagat ctgcatctca ggactgtgga agagcttgga gtggacagaa 240
atgctattga gaagcatcta gaagaattgg agcaactttt aaaggggata g 291

```

```

<210>      2644
<211>      265
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      2644

```

```

tcgcatgcac gcgtacgtaa gctcgggaatt cggtcgcagg aaagaatgag agagggtgcc 60
aaccttattc tgagcttccc ggaagagagg ccaataattg ttctctctgc catgggaaag 120
acaactaaca tgcttttgct ggctggagaa aaagctgtaa gctgtggagt aactaatgct 180
gatagtattg atgagctcaa cataatanaa gatcttcac tcaggactgt ggaacagctt 240
ggagtggaca gaaatgttat tgaga 265

```

<210> 2645  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2645

cangcacgcg tacgtnagct cggnatccg ctcgagcaag cactcctggt gttagtgcct 60  
 cccttttcaa tgcattggct aaggccaata taaatgtccg tgctatagcg caaggttggt 120  
 ctgagtacaa tattactggt gttgttaagc gagaggattg tataaaggct ttacgagctg 180  
 tccattccan attttatctc tcaagaacca ccatagcaat gggcattatt ggacctggat 240  
 taattgggag cacactactt gaccagctaa gggatcaggc ctcaaccctg aaagaagaat 300  
 tcaacat 307

<210> 2646  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2646

nngnngcann cacgcgtacg tnagctcgga attcggtcgc anntccgtgc tatagcgcaa 60  
 ggntgttctg agtacaatat tactgttggt gttaancgag aggnntgtat aaaggcttta 120  
 cgagctgtcc attccagatt tnatctctca agaaccacca tagcaatggg cattattgga 180  
 cctggattaa ttgggagcac actacttgac cagctanagg atcaggcctc aaccctgaaa 240  
 gaagaattca ncattgattt gcgtgtaatg ggcatacttg gttcaaagtc aatgctctta 300  
 gtgatgttgg cattgacttn ncctagn 327

<210> 2647  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2647

ngtnggnnta cgtnagctcg gaattcggct cgagcggatc tgttatttca aagcatctag 60

aagaattgga gcaacttctg aaggggatag ctatgatgaa agaattgact aaaaggactc 120  
aggactatatt agtctccttt ggagaatgca tgtcgacaag gatctttgct gcatatctta 180  
ataaaatagg tgtcaaggct cgccaatatn atgcatttga gattgggtttt ataacaactg 240  
acgacttcac aaatgcggac attttggaag cnacttatnc agctgttgca aagagattgc 300  
atggtgattg gctctcc 317

<210> 2648  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2648

tcgcangcac gcgtacgtaa gctcgggaat tcggctcgag ctcatttcca gagcatctag 60  
aagaattgga gcaacttctg aaggggatag ctatgatgaa agaattgact aaaaggactc 120  
aggactatatt agtctccttt ggagaatgca tgtcgacaag gatctttgct gcatatctta 180  
ataaaatagg tgtcaaggct cgccaatatg atgcatttga gattgggtttt atagcaactg 240  
acgacttcac aaatgcggnc attttggaag caacttatcc agctgttgca aagagattgc 300  
atggtgattg gctctccgat cctgcaattg caat 334

<210> 2649  
<211> 286  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2649

ngcacgcgta cgtaagctcg gaattcggct cngnngnatgt ccctccgcga gancggcccc 60  
tccatcgccg tcgtgggcgt catcggcgcc gncggccagg agttcctact ccgtcctctc 120  
cgaccgcgac ttcccctacc gtcctntcat atgctggctt ccaagcgtc cgctggccgc 180  
cgcatcacct tcgaggacag ggactacgtc gtccaggagc tcacgccgga gagcttcgac 240  
ggtgtcgcat cgcgctcttc agcgccggcg gctccatcag caagca 286

<210> 2650  
<211> 280  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2650

```
gtnnangcac gcgtacgtaa gctcgggaatt cggctcggagg acgctccggt gggcgccgca 60
tcaccttttna gnnccagggga ctacgtcgtg ncggagctga cggcgggagan cttcgatggc 120
gtcganatcg cgatctncan cgccgncggc ncccattagc aagtacttcn gccccatcnn 180
cgtcnatcgg ggaacgggtgn tcgncgacan cagatccgcn tntcggatgg acnanaatgt 240
cccattggta atncccgaat caaaccgtn nccatgcaaa 280
```

<210> 2651

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2651

```
ncacgcgtnc gtanacgtnn gnattcngct cgannngcgn nnnngctgggg cgccgcatca 60
cctttgagtn acaggggacta cgtcgtggag gagctgacgg cggagagctt cgatggcgctc 120
gacatcgcgc tcttcagcgc cggcgggtcc attagcaagt acttcggccc catcgccgtc 180
gatcgggggaa cgggtggtcgt cgacaacagc tccgcgtttc ggatggacga gaatgtccca 240
ttggtaattc ccgaagtga cccggaagca atgcaaaaaca tcaaagccgg aatggaaagg 300
gcgcattcat gctaacccta att 323
```

<210> 2652

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2652

```
gggaataaaaa cctgctttct atttttctca acctaaaatc ccatccacca accttatgat 60
gatgtcttca ctctctgttt cgcgccacaa ccacctcttc tcggggccctc tcccggcccg 120
gcccgaagccc aagcccagct tttcctcttc caggatccga atgtccctcc aagaaaaacgg 180
cccctccatc gccgtcgtgg gcgtcaccgg cgccgtcggc caggagtcc tctccgtcct 240
ctccgaccgc gacttcccct acagctccat caaaatgctc gcgtccaagc gctccgctga 300
```

gcgccgcacac acctttgagg acagggacta cgtcgtggag gagctgacgg cggagaactt 360  
cgatggcgctc gacatcgcg c tttcancgc cgggcggctc aa 402

<210> 2653  
<211> 482  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2653

gggnngggnn nnnnttaact ttccagggcc cggtcaggaa aaccggggtc gacccacgcg 60  
tcngtacggc tgcgagaaga cgacagaagg gggggacatg gaattggaag acaagttgga 120  
gtgtggtggt ctgttttaaa atccaacact taatctctct cttegcagcc taaaatccca 180  
atggcttcac tctctgtttt gcgccacaac cacctcttct cgggccccct cccggccccg 240  
cccaagccca cctcctctc ctctccagg atccgaatgt cctccgcga gaacggcccc 300  
tccatcgccg tcgtggggt caccggcgcc gtcggccagg agttcctctc cgtcctctcc 360  
gaccgcgact tcccctaccg ctccattcat atgctggctt ccaagcgctc cgctggccgc 420  
cgcatcacct tcgangacaa ggactaagtc gtccaagaac tcangccggg anaacttcaa 480  
cg 482

<210> 2654  
<211> 327  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2654

cangcacgcy tacgtaagct cggaaatcgg ctcgagctct cttegcagcc taaaatccca 60  
atggcttcac tctctgtttt gcgccacaac cacctcttct cgggccccct cccggccccg 120  
cccaagccca cctcctctc ctctccagg atccgaatgt cctccgcga gaacggcccc 180  
tccatcgccg tcgtggggt caccggcgcc gtcggccagg agttcctctc cgtcctctcc 240  
gaccgcgact tcccctaccg ctccattcat atgctggctt ccaagcgctc cgctggccgc 300  
cgcatcacct tcgaggacag ggactac 327



<210> 2655  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2655

gtngcccnca cgcgtacgta agctcggaat tcggctcgag gagctttgcc acaagaaggg 60  
 gactttgctc tgtattgatg gtacatttgc aacaccattg aaccagaagg cccttgccct 120  
 tggcgctgat ctgattctgc actccttaac aaaatacatg ggtggacatc atgatgtaag 180  
 ttggcatgtt caagatttag tttgatggaa aaacaacaca aatatgttac attttcaggg 240  
 ttaagagtta agcgtcaagg agcattttcc tctttcaggc ccttggtggt tgcataagtg 300  
 gttcaactaa gg 312

<210> 2656  
 <211> 542  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2656

gnnnangtnn ntntcnaana ngntaanctt tnnaaaccct ccatttnggt aancnccggg 60  
 gccacgcgtc cgcncacgcg tncgcccacg cgtccggaga gaaagagagg gagtaagtgg 120  
 gtnnaggang gaaaaactaaa gaaacaaacc taacacaaca caaatccttg aaacgacgac 180  
 ggaaatggcc gtttcgagct cgcacatgcg tttcaccttt gagtgccgct ccgatcccgga 240  
 tttctcgccc cccccgccgt ctttcgacaa cctccgccgc cgaaaacttcc gtcctccgc 300  
 aggatccggc gcggcgtttc acggcatctc ctccctcatc ctccgcttcc tcccaacttc 360  
 cagcgccagc taagcaccaa ggcgcgccgc aactgcagca acatcggcgt cgcgcaaadc 420  
 gtcgccgctt cgtggtcgaa caacagcnac aactnttcgg ccgncggggc ttcngcgccg 480  
 accgggggnc cccggcacgga cccggtacgg ggcttttccc gtngtcgtaa cgncnaacaa 540  
 gg 542

<210> 2657  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        2657

```

cgtcgcangc acgcgtacgt ncagctcggga attcggctcg agcggatctt gacatggttg   60
atgctgccat agtagaaggg aaaacaaaag tgctttactt cgaatctggt tccaacccca  120
cccttacggt tgcgaacata cctgaactgt gccacatggc acaccggaag ggagtgcggt  180
tggtggtgga caacacgttc gcgcccattg tgctttcgcc agcgcgtctt ggtgctgatg  240
ttgtcgttca cagtatctcc aagttcatca gcggtggggc cgatatcatt gcaggagcgg  300
tgtgcg                                           306
  
```

<210>        2658  
 <211>        307  
 <212>        DNA  
 <213>        Glycine max

<400>        2658

```

gtcgcgatgca cgctgtacgta agctcgggaat tcggctcgag gacggatctt gacatggttg   60
atgctgccat agtagaaggg aaaacaaaag tgctttactt cgaatctggt tccaacccca  120
cccttacggt tgcgaacata cctgaactgt gccacatggc acaccggaag ggagtgcggt  180
tggtggtgga caacacgttc gcgcccattg tgctttcgcc agcgcgtctt ggtgctgatg  240
ttgtcgttca cagtatctcc aagttcatca gcggtggggc cgatatcatt gcaggagcgg  300
tgtgcg                                           307
  
```

<210>        2659  
 <211>        515  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2659

```

gnnnnngnaga gtttgnttgg ggggnaggga gnnanatttt nagaccacta tgacgtcgca   60
tgcacgcgta cgtaagctcg ganttcggct cgagagacag aggntagaga angagagggg  120
gtaagtgggt aaaggaaaaga naactaaaga aacaaaccta acacaacaca aatccttgaa  180
acgacgcggt aaatggccgt ttcgagctcg cacatgcgtt tcacctttga gtgccgntcc  240
gatcccgaatt tctcgcccc cccgccgtcc ttcgacaacc tccgccgccg caacttccgc  300
  
```

tcctccgcag gatccccggcg cggcggtttca cggcatctcc tcctcatcct ncgcttccct 360  
 cccaacttcc agcgccagct aagcaccaag gcgcgccgca actgcagcaa catcggcgctc 420  
 gcgcaaatcg tcgccgcttc gtggtcgaac aacagcgaca actctccggc cggcgggggt 480  
 tcggcgccgg ccgcggcacc ggcacggacg ccggt 515

<210> 2660  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2660

caaggacatc atgatgtcct tgggtggtgc ataagtgggt caattnnngt ggtttcgcaa 60  
 attcggactt tgcaccatgt nttgggtggt acacttaacc cgaatgctgc atacctattc 120  
 atcagaggca tgaaaacgct gcatctccgt gtacagcagc agaattcaac aggaatgagg 180  
 atggccaaac ttttagaggc acatcccaag gtgaagcggg tctactatcc aggcttgccg 240  
 agtcaccctg aacatgag 258

<210> 2661  
 <211> 277  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2661

ganattgtca tgcactctgc tacaaaattt attgctggac atagtgcacat tatggctggt 60  
 gtgcttgctg tgaaggggtga aaagttggga aaggaattgt atttcttgca aaatgcagag 120  
 gggtcaggct tagcaccatt tgactgttgg ctttgtttgc gaggaatcaa gacaatggcc 180  
 ctgcgaattg aaaaacaaca ggataatgca cagaagattg ctgagttcct tgcctcccat 240  
 cctcgagtga agaaagtga ttatgctggc ttgcctg 277

<210> 2662  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 2662

gcatgcacnc gtacgtaagc tcggaattcg gctcgagntt gcctcccatc ctcgagtga 60  
gaaagtgaat tatgctggct ngcctggcca tcctggctcg gatttacact attctcaggc 120  
aaagggtgca ggatctgtgc ttagcttctt gactgggtca ttggaacttt caaagcatat 180  
tgttgaaact accaaatact tcagtataac cgtcagcttt gggagtgtga agtcccttat 240  
tagcatgcca tgctttatgt cacatgcaag cnnngncngct ggcagttcgt gaggccagag 300  
tttaagaaga tctgtagtat at 322

<210> 2663

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2663

cgcangcacg cgtacgtaag ctcggaattc ggctcgagaa acaacaggat aatgcacaga 60  
agattgctga gttccttgcc tcccatcctc gagtgaagaa agtgaattat gctggcttgc 120  
ctgggtcatcc tggctgtgat ttacactatt ctcaggcaaa ggggtgcagga tctgtgctta 180  
gcttcttgac tggttcattg gaactttcaa agcatattgt tgaaactacc aaatacttca 240  
gtataaccgt cagctttggg agtgtgaagt ccc 273

<210> 2664

<211> 289

<212> DNA

<213> Glycine max

<400> 2664

gcacgcgtac gtaagctcgg aattcggctc gaggttcagg cttagcacca tttgactgtt 60  
ggctttgttt gcgaggaatc aagacaatgg ccctgcgaat tgaaaaacaa caggataatg 120  
cacagaagat tgctgagttc cttgcctccc atcctcgagt gaagaaagtg aattatgctg 180  
gcttgctggg tcatcctggg cgtgatttac actattctca ggcaaagggt gcaggatctg 240  
tgcttagctt cttgactggg tcatggaact tcaaagcata ttgttgaaa 289

<210> 2665

<211> 499

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2665

```
aacttttacg ccnccangtg ccgggcaang gtnangagnt cccgggtcga cncacgcgtc 60
cggnnagaag acgacagaag gggacggtgg tgggtggacaa cacgttcgcg cccatggtgc 120
tttcgccagc gcgtcttggg gctgatgttg tcgttcacag tatctccaag ttcacgcgcg 180
gtggggccga tatcattgca ggagcggtgt gcggacccgc aagactggtg aacgcaatga 240
tggatctgca acaagggtca ctaatgctgc tgggtccaac aatgaatgcg aaagtggcat 300
tcgaactctc ggagagaata ccgcacctag ggctaagaat gaaggagcat agcaaccgcg 360
cactagagtt cgcaacgagg ctcaaaaaggc taggaatgag ggtaatatata ccgggccttg 420
aggagcacc acagcaccaa gcttctgaaa tcaatgcaca acaaggacta tggctacggc 480
gggctcatgt tcntngaca 499
```

<210> 2666  
<211> 326  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2666

```
tcgcatgcac gcgtacgtaa gctcgggaatt cggtctgaga cgggagggtca agcccgccct 60
gaccaacatg gtctccgctg ctaagctcat tcgcaccag ctcgccagcg ccaagtgcg 120
accttttttt gccttttttcg tttccgagga gggcgctcgtc gatgcccaatt tgtntccaat 180
aaacagggtt cccccctgt gcccgccgtt ctgttgtgct ccgtctgtgg ttaggttact 240
agttttcttg atctcgcccc cagcggttac ctgttttata tctgtttggg ggtttctgag 300
gcaagttgcc cgtgtattgt atcgta 326
```

<210> 2667  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 2667

agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gggacactac tcagattcac 60  
 actcacatgt gctactccaa cttcaatgac atcattcact caatcataga catggatgct 120  
 gatgtgatca ccattgagaa ctccagatca gatgagaagt tactttcgggt cttccgtgag 180  
 ggagtgaaat atggtgccgg cattggctct ggcgtttatg atattcactc acccaggatt 240  
 cctcccacag aagaaattgc tgacaggatc aacaagatgc ttgcagttct tgaaagcagc 300  
 attctctg 308

<210> 2668  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2668

nagtcgcacg cacgcttacg taagctcnga attcggctcn nnngnccant gancttgctg 60  
 cttctctcan taccttggca gggctttgag ggcatgtgtg ggcaaagata agcttggttg 120  
 tgtccacctn ctctccctt cttcacactg gctgtggntc tagttaacga naccnagttg 180  
 gatgatgaga tcaagtcacg gctagctttg gctgccccaa aaattgttga ngttaacgca 240  
 tnggctaaaag cngtgtcngg ccacaaggat gaggcctnct tctctgntan tgcngctgct 300  
 ctggcttcaa gan 313

<210> 2669  
 <211> 290  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2669

cgcangcacg cgtacgtaag ctcggaattc ggctcgaggg ggatgtactt gatcccannc 60  
 accagccatc tgctcgacgc caccgccanc ctcggtgccg tcccccccag gtacggctgg 120  
 accggcggcg agattggatt cgncacctac ttctccatgg ccagaggtaa tgctaccgtg 180  
 cntgctangg agatgaccaa gtgggttcgac accaactacc actttattgt ccctgaattg 240  
 ggccctgatg tgaattcacc tatgcttctc acaaggctgt tgatgaatac 290

<210> 2670

<211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2670

cncgcacgcg tacgtaagcn tcgcgaattc ggctncgagt tgctcccnca gnagcganga 60  
 agangccaca gagnnctagt ctccctanct ctacacccgc aaganaaana tggcatctca 120  
 catacgttgg atacccccgt atgggttccc aagagagnnt ncaanttcgc tctcgagtcn 180  
 ttctgggatn gcaanancag cgccgangct ttgcagangg tgtcntctga tctcagggca 240  
 nccatctggn ancagttggc tgatgntggg ntcaagtaca tccccngca 289

<210> 2671  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2671

nttgcgtnc a cgcgtacggn agctcggaat tcggctcgca gtgcacgtgt nattangnna 60  
 aatgagaaan aaaaaaatgg tcatncaca tcgnnggata cccccgtatg ggtgccaag 120  
 agagagcnca agntcgcttc tcgagtcttn cngggatggc aagagcagcg cngaggattt 180  
 cncagaaggt gtcttcngan ctccagggcat ccancnggaa gcagatggct gttgctggga 240  
 tcaagtanan cccnancan acttcngcnc actatgatca ggntcaacnac gcnetgccac 300  
 nct 303

<210> 2672  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2672

agngacgcgt actaagtcgg aattcggctc gagaagataa gcttggttg tccacctcct 60  
 cctcccttct tcacactgct gtnganccca gttaacgaga ccaagttgga tgatgagatc 120  
 aagtcattgg ctagcttttg nctggcccaa naaaattgtn ngaagttaaa cggcattggg 180  
 ctaaaaggca ttggtgctgg gaccancaag ggatggaggg cttttctttc tctgggtaaa 240

tggctggctg gctactgggc tttccaaggg aaagttcttt cctn 284

<210> 2673  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2673

cntgcncgta nntnagctcg gaattcggct cgagctgagg ttgttggtgt tgccaaggnt 60  
 gtaaantatg gtcccgttc tgtgctgat ggctnctnaa nccaatgcca aatccatgca 120  
 ggngcntgcc acgtcgaanc gtaccantaa caaggcgggtt aaggaccgtc aagccagcgt 180  
 cactcctgag caacacgngc gcaagtctca gttccctgaa cgttatgccc agcagaagaa 240  
 gcacttgagc ctcttggtc cccaccacca ccattgggtc ctccctcag accana 296

<210> 2674  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2674

gcgcntgcan tnanacgtng agntcggaat tcggctcgag ctccaatcc ttccaaccac 60  
 cactattggn ncnttcngtc agantnnann antgaggagg gtacgccgtg agttcaangc 120  
 taanaagntc tnnnnnggaa ntntatgnct aagtcaatta agngggaaat tcgcaaagtt 180  
 gttgaacttc aagaagagct tgatattgat gttcttggtc atggagancc agagngaaat 240  
 gntatgggtg agtacttcgg tgagcaatt 269

<210> 2675  
 <211> 216  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2675

nngtcganac ntgcgtacgt aancncggaa ttcggctcga gggcaagacc agcgccgng 60  
 attngcaggn ggtgtctnct aancncagga gcatccatcn ggaagcagat ggcngatgct 120



gggatcaant acatccccag caacactttg ctactcacna naaccaggtn ctcgacgccn 180  
 ccgccaccct acggngccgn tgccacnnag gtangg 216

<210> 2676  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2676

anatgaccag aagacgggtca ttggcttttg gcggctcttg ctcagagctt taccaagcgc 60  
 ccaatgaagg gaatgcttac cggaccagtt gagaatggta acaggaccgg taagcattct 120  
 caactgggtcc tttgttagaa atgaccaacc tagatctgag accacctacc agattgcttt 180  
 gtctatcaag gacgaagtgg aagaccttga aaaggctggc atcactgtta tccaaattga 240  
 tgaagctgct ttgagagagg gtc 263

<210> 2677  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2677

cgcangcacg cgtacgtaag ctoggaattc ggctcgagtn gggngcgggn ggcgtgaagc 60  
 caccgatcat nnatggtgat gtgagccgcc caaagccaat ganngtcttc tngngatnnc 120  
 tggntcagag ctttacnaag cgcccaatga agggaatgct taccggctcct gttaccannc 180  
 tcaactgggn nnntggttaga aatgaccanc ctagatctga gaccacctag nagantgctt 240  
 tgtctatcaa ggacgaatgg aaganncnnn ccaaggctgg catcantgtn a 291

<210> 2678  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2678

cctanggtgc cgntccacna nggnacngnt gncnccggcg gngagattng gtttgatacc 60  
 tactttctcca tggccanang taatgctacc gtgccagcta tggagatgac caagtgggtc 120

gacaccaact accactntat tgtccctgaa ttggggccctg atgtgaactt cacctatgct 180  
tctcacaagg ctgttgatga atacaaggag gccaaaggcgc ttgnagtgga taccgttccg 240  
gtcctcgttg gccctgttac atacctg 267

<210> 2679  
<211> 252  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2679

cagaagccnc agaagaagcc acagagaact agtctnctac tcnccaccng caagnaccnn 60  
natggcatnn tcnctcgtt ggataccccc gtatgggtcc ncaannngag agctcaagtt 120  
gtctcgagtc tttctgggat ggcaagagnn agcgccgagg gatttgcaga aggtgtcttc 180  
tgatctccag ggcattccatc tggaagcaga tggatgatgct gggatcaagt acatccccag 240  
caaactttct nt 252

<210> 2680  
<211> 324  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2680

gtcgcangca cgcgtacgtn agctcggnat tcggctcgag cacgagacca agttggatga 60  
tgagatcaag tcatggctag cttttgctgc ccaanaaatt gttgaagtta acgcattggc 120  
taaagcattg tctggccaca aggatgaggc cttcttctct ggtaatgctg ctgctctggc 180  
ttcaaggaag tcttttccaa agagttgacc aaacgagggc tgntccagaa agnctgctgc 240  
tagcaattga agggttccag atcatngccg gncaacaatt ntccatgcca gactggatnc 300  
tcaacaaaag aagnncaacc ttcc 324

<210> 2681  
<211> 362  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 2681

tnnaggtagt agctcggatt cggtcgagct ctccatggcc agaggtaatg ctaccgtgcc 60

tgctatggag atgaccaagt ggtncgacac naactaccac tttattgtgc ccngnattgg 120

gccctggatg nagaactttc acctatgnct ntcttcacaa gggctgtntg gatgcagata 180

ncaaggggaag gtccaagggg cgatttgggg agtcgggata nccaatntcc ncggnaactc 240

cgtntggggc cncgtggtta ancatnactt tggatataggc taccinncca aaggtcctgg 300

gcacaaangg ggcaaatttc gganggtaaa attcccattg gggggcttcc tgcccttgct 360

tc 362

<210> 2682

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2682

cgtcgnangc ncgcgtncgt cagctcggnn ttcggctcgn gctgnacctg tgcttgtggg 60

acctgtttct tncctgtgtg tgtcannacc agctaagggt gttgagangt cattttccct 120

tctttcccta attgacaaga tccttcctgt ctacagggaa gttgtggctg aactgaaggc 180

agctggtgct acttggtacc agtttgatga acctaccctt gtgaaggatc tcaatgcccc 240

ccagttacaa gcattttacc atgcctacgc agagtttagag tcaagtttnt ctgggttggn 300

tgttctgatt ganacatact t 321

<210> 2683

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2683

gnngcacgcg tacgtaagct cggaattcng ctcgagctgn cntcaacttg ntccctcaga 60

agcgnntann aatccacana gaactatgtc tcnctactnc ncacccgcaa gaaaaaaaaatg 120

gcntntcaac atcgttggat acccccgtat nggncccaat agaganctna attcgtcttc 180

gagtctatct gggatgncaa nagtacgccg aggatttgca naangngtct actgatctca 240

gggcatccnt ctgganncag atggntnatg ctgggatcag tacatccnca gcaacatttc 300  
tctnactntg accan 315

<210> 2684  
<211> 174  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2684

gctgcaggca cgcgtacgtn agctcggaat tcggctccgn gcttcancctt gctccctcag 60  
aagcgnagaa gaagcccana gagaanagnc tcctantctc acccgcaagn nnaanatggg 120  
atctcacatc gttggntacn cccgtatggg tcccaagaga gagctnaagt tgnt 174

<210> 2685  
<211> 303  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2685

aacngaaaagn cgcangcacg cgtacgtaag ctcggaattc ggctcgagct tcaggatctc 60  
cgaggaagag tatgtaaagt caattaagga ggaaattcgc aaagttgttg agcttcaaga 120  
agagcttgat attgatgttc ttgttcattg agaaccagag gtccgctctc atttcataac 180  
atgactaaat attagtcttt tgaattgaag atagcttctt tctttctgaa gagcaactac 240  
tctttgcata ttttctttcc tattgttaga ttgcngattc caaaattgca gcacctccaa 300  
ctn 303

<210> 2686  
<211> 103  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 2686

gntttntttt ttttttgggt tgttttcnnt tgggtttttt tgtttttntt gnttnttgggt 60  
tntttgtttt tttttgtttt ttntgtttt tttttttttt nnt 103

<210> 2687  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2687

```

gnnngnaggt tttgannggg ggggaggggn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngnttgnt nccttanaag cnaagaagaa 120
nccncanana ancnggcttc taattttttt taaccaccag aaaaatgggn ttttaaantc 180
ggtnggntnc cccggattgg gnccaaggag agagctaaag ttcgttctcg agtctttctg 240
ggatggcaag gagcagcgcc gaggatttgc agaaagggtg ctgcttgatc tcaaggatcat 300
ccatctggna agcagatggc tggtggtctg gatcaaagta ccttccccag caacactttt 360
ctcgttctat gaccaagctt gntcgacgcc accgncaccc tcggtgccgt cccccccagg 420
tacggntgga ccggcggcga gattggattc gacacctact tctccatggn cagaggtaat 480
gctaccgtgc ctgctatgga gatgaccaat ggttcgacac caa 523

```

<210> 2688  
 <211> 570  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2688

```

agaggcctgc ttgnctttat canananann ncacngccat gccctccgaa ctccatttc 60
ngcccaggcg tactcccacg cntcctcagt ngccaacga ggctgttcan aangctgctg 120
ctgcattgaa ngnttnggan ggtntccntg caacaaatgt caggtgccan actggattct 180
caacaaaaga anctcaacct tncaatnctg ncaaccacca ctattggatc ctccctcag 240
actgtataac tgaggagggt acgcccctga attnaaagct aacaagatct ccgangaana 300
ngtatgttna tgtcanttta aggaggaaat tttcaaantt tgtttgagct tnnataaaaag 360
cttnatattn atnttcttgt catnnagaan nncagatgaa atgntatggt tcnagtnoct 420
tttngggaca aattttctaa nctttttccn tttacncnnn tatnnggttn gttncaaatc 480
ttttgggtcc ccctttcntn naaancnnnn atcatntttt ngntganttt tatncnccca 540
aantnaanna nnccgctttt tttntttttt 570

```

<210> 2689  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2689

```
agagggttnnn tttttttnnat nnaaaagtatt tttnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60
nnnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnngttagg naaatgacca 120
accttagatc tnngaccacc taccnggggtg ctttggctat naagggccna antggagggga 180
ccttgaaaag gctggcatca ctgttatcca aattgatgaa actgctttga gagaaaggggt 240
ctgccactga gggaaaatcaa gaacaagggt cacttacttg gactgggctn gtncatgcct 300
ttnagnaatc accaatgttg gnntnntccn ngataccact caaaattcac acccacatgt 360
gctanctcca aacttttaac gacattnttc aatccatnaa ttnacatgg gcccttattg 420
ttattcacca tttgaanaac tnttgcttcc gaattaanaa acttcctgtg naaagtentt 480
tcntggaaaaa ggtgttaaaa nattgggtct tgggaaattn ggncccttggg ngtttattta 540
aaatnccant tccccaanaa atnccc 566
```

<210> 2690  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2690

```
tcgcatgcac gcgtacgtaa gctcgggaatt cggtcgcgagc aaagaccctt gatttgataa 60
agcaaggntt tccatctgga aaattttcttt ttgctgggtg tgttgatgga agattnatTT 120
gggccaataa ttttgcattc tctctgaaca cccttcaggc acttgagagac attgttgga 180
atgacaagggt tgtgggtttcc acgtcgtgtt ctcttcttca cactgcagtt gatctgggtga 240
atgagaccaa attggaccaa gagattaagt cttggcttgc atttgcagca caaaaagttg 300
```

<210> 2691  
 <211> 239  
 <212> DNA  
 <213> Glycine max

ngtcgcangc	acgcgtacgt	nagctcggaa	ttcggctcga	gcttgatttn	atcaagcaag	60
gatttccatc	tggaaaattt	ctntncgctg	gtgttgttga	tgngaagana	tatttgggcc	120
aatagtcttg	catcttctct	gaacaccctt	caggcacttg	gggacattgt	tgggaatgac	180
aaqgttggtg	tttccacgtc	ctgttctctt	cttcacactg	cagttgatct	gtgaatgag	239

```
<223>      unsure at all n locations
<400>      2692
```

tcgcatgcac	gcntaagtna	gctcgggaatt	cggctcgagc	atttactgcc	aatgggtggg	60
tgcaatcata	tggatcccg	tgtgtcaaac	ctcccatcat	ctatggtgat	gtgagccgtc	120
ccaagcccat	gacagttttc	tgggtcttcaa	ctgctcaaag	tttgaccaa	cgaccaatga	180
aggggaatgct	tactggccct	gttactattc	tgaactggtc	ctttgttaga	gatgaccaac	240
caagatttga	aacatgttac	cagattgctt	tggctatcaa	ggatgagggt	gaggatcttg	300
aga						303

```
<223>      unsure at all n locations
<400>      2693
```

gtcgacgca	cgcgtacgtn	agctcggaat	tcggctcgag	ctgtgtcaag	cctcccatca	60
tctatggtga	tgtgagccgt	cccaanccca	tgactgtttt	ctggtcttnc	aactgctcaa	120
agtttgacca	aacgaccaat	gaagggaaatn	cttactggcc	ctgttactat	tctgaactgg	180
tcctttgtta	gagatgacca	gccaaagattc	gaaacatgct	accagattgc	tttggctatc	240
aaggatgagg	ttgaggatct	tgagaaagca	ggtattactg	tcatccagat	tgatgaagct	300
gctctt						306

<210> 2694  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
  
 <400> 2694  
  
 ccacgcgtcc ggtgttctct tcttcacact gcagttgatc tggatgaatga gaccaaattg 60  
 gaccaagaga ttaagtcttg gcttgcatth gcagcacaaa aagttgttga agtaaattgcc 120  
 ttggccaagg cattgtctgg acagaaggat gaggttttct tttctgctaa tgctgctgcc 180  
 ttggcttcaa ggaagtcttc cccaagggtg ataaatgagg ctgtccaaaa agccgctgct 240  
 gctctgaagg gctctgatca tcggaggggcc acaaattgta gtgccagggt ggatgctcaa 300  
 cagaagaaaat tgaatctttc tgttcttcca acaactacaa ttggatcttt ccctcaaact 360  
 gccgatctta gaagagttcg tcgtgaattc aaggctaaca agatctccga ggaagattat 420  
 atcccgtttc attaaggagg aaatttaciaa tgttgtaaa 459

<210> 2695  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2695  
  
 gcncgnacgc gtacgtaagc tcggaattcg gctcgagggt tttcttttct gctaattgctg 60  
 ctgccttggc ttcaagggaag tcctcccca aagggtgataaa tgaggctgtc caaaaagccg 120  
 ctgctgctct gaagggtctt gatcatcgga gggccacaaa tgtagtgcc aggttggtg 180  
 ctcaacagaa gaaattgaat ctttctgttc ttccaacaac tacaattggn tctttccctc 240  
 aaactgccga tcttagaaga gttcgtcgtg aattcaaggc taacaagatc tccgaggaag 300  
 attata 306

<210> 2696  
 <211> 285  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 2696



acgtcgcacg cgcgcgtacg taagctcggg attcggctcg aggtaaatgc cttggccaag 60  
gcattgtctg gacagaagga tgaggttttc ttttctgcta atgctgctgc cttggcttca 120  
aggaagtcct cccaagggt gataaatgag gctgtccaaa aagccgctgc tgctctgaag 180  
ggctctgac atcggagggc cacaatgtt agtgccaggt tggatgctca acagaagaaa 240  
ttgaatcttt ctgttcttcc aacaactaca attnggtctt tccct 285

<210> 2697  
<211> 303  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2697

acgtcgcang cgcgcgtacg taagctcggg attcggctcg agngaagctg tccaaaaggc 60  
cgctgctgct ctgaagggt ctgatcatcg gagggccaca aatgttagtg ccaggctgga 120  
ttctcaacag aagaaactga atcttctgt tcttccaaca actacaattg ngctcttcc 180  
ctcaaactgc cgatcttaga agagttcgcc gtgaattcaa ggctaacaag atctccgagg 240  
aanntatata catttcatta aggagggaaa ttaacaatgt tgtgaagctc caggaagaat 300  
tga 303

<210> 2698  
<211> 260  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2698

gtcgcntgca cgcgtacgta agctcgggaa tcggctcgag tggatgaatga naccaaattg 60  
gaccaagaga ttaagtcttg gcttgcatth gcagcacaaa aagttgttga agtaaatgcc 120  
tggccaaggc attgtctgga agaaggatga ggttttcttt tctgctaatt ctgctgcctt 180  
ggcttcaagg aagtcctccc caagggtgat aaatgaggct gtccaaaaag ccgctgctgc 240  
tctgaagggc tctgatcatc 260

<210> 2699  
<211> 193  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2699

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taacnagacg tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagn tgataaatga 60
ggctgtccaa aaagccgctg ctgctctgaa gggctctgat catcggaggg ccacaaatgt 120
tagtgccagg ttggatgctc aacagaagaa attgaatctt tctgttcttc caacaactac 180
aattggatct ttc 193
```

<210> 2700

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2700

```
gtcgcangca cgcgtacgta agctcgggaat tcggctcgag nctggtatta ctgtcatcca 60
gattgatgag gctgctctaa gagaagggtt acctctgagg aagtctgagg aggctttcta 120
tctaaactgg gctgttcaact catttaggat taccaactgt ggtgtggagg aactactca 180
gattcacact cacatgtgct actccaactt caatgacatc attcactcan tcntagacat 240
ggatgctgat gtgatcacca ttgagaactc cagatcagat gagaagttac tttcgggtctt 300
ccgtgng 307
```

<210> 2701

<211> 361

<212> DNA

<213> Glycine max

<400> 2701

```
gtcgcacgca gcgtacgtaa gctcgggaatt cggctcgagg attcgaaaca tgctaccaga 60
ttgctttggg ctatcaagga tgaggttgag gatcttgaga aagcaggat tactgtcatc 120
cagattgatg aagctgctct aagagaaggt ttacctctga ggaagtctga ggaggctttc 180
tatctaaact gggctgttca ctcatctagg attaccaact gtgggtgtgga ggacactact 240
cagattcaca ctcatatgtg ctactccaac ttcaatgaca tcatcactca atcatagaca 300
tggaatgctga tgtgatcacc atgagaactc tagatcagac gagaagttac tttcagttctt 360
```

<210> 2702  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 2702

gtcgcacatgca cgcgtacgta agctcgggaat tcggctcgag gctgctctaa gagaaggttt 60  
 acctctgagg aagtctgagg aggcctttcta tctaaactgg gctgttcact catttaggat 120  
 taccaactgt ggtgtggagg aactactca gattcacact cacatgtgct actccaactt 180  
 caatgacatc attcactcaa tcatagacat ggatgctgat gtgatcacca ttgagaactc 240  
 tagatcagac gagaagttac tttcagtctt ccgcgaggga gtgaaatatg gtg 293

<210> 2703  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2703

gtcgcangca cgcgtacgta agctcgggaat tcggctcgag attactgtca tccagattga 60  
 tgaagctgct ctaagagaag gtttacctct gaggaagtct gaggaggctt tctatctaaa 120  
 ctgggctgtt cactcattta ggattaccaa ctgtggtgtg gaggacacta ctcagattca 180  
 cactcacatg tgctactcca acttcaatga catcattcac tcaatcatag acatggatgc 240  
 tgatgtgatc accattgaga actctagatc agacgagaag tt 282

<210> 2704  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2704

cgctgcangc ncgcgtacgt nagctcggaa ttccgctcga ggagatgacc aaccaagatt 60  
 tgaaacatgt taccagattg ctttggctat caaggatgag gttgnggatc ttgagaaagc 120  
 tgggtattact gtcattcaga ttgatgaggc tgcnctaaga gaaggtttac ctctgaggaa 180

gtctgaggag gctttctatc taaactgggc tgttcactca tttaggatta ccaactgtgg 240  
 tgtggaggac actactcaga tncacactca ca 272

<210> 2705  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <400> 2705

gtcgcacgca cgcgtacgta agctcggaat tcggctcgag aagaagttca accttccaat 60  
 cctcccaacc accacaattg gatccttccc tcagactggt gaactgagga ggggtgcgtcg 120  
 tgaatacaag gctaacaaga tctcagagga ggagtatggt agttcaatta aagaggaaat 180  
 ccgcaaagtt gttgaactcc aagagaatct tgatatcgat gtcctggtac acggggagcc 240  
 tgagaggaat gacatggtgg agtactttgg tgagcagttg tcaggctttg cctttacc 298

<210> 2706  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2706

nncgcacgca cgcgtacgta agctcggaat tcggctcgag aagaagttca accttccaat 60  
 cctcccaacc accacaattg gatccttccc tcagactggt gaactgagga ggggtgcgtcg 120  
 tgaatacaag gctaacaaga tctcagagga ggagtatggt agttcaatta aagaggaaat 180  
 ccgcaaagtt gttgaactcc aagagaatct gcatatcgat gtcctggtac acgngagcc 240  
 tgagaggaat gacatggtgg agtactttgg tgagcagttg tcaggctttg cctttaccgt 300  
 taaggct 307

<210> 2707  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2707

ccacgcgtcc gctggaagca gatggctgat gctggaataa agtatattcc tagcaacacc 60

ttctcacttt acgatcaagt actggacaca acagccatgc tcggggcagt tccatctaga 120  
 tataattgga atggtgggga gattgggttt gatgtttact tctcaatggc aagagggaat 180  
 gcatctgtac cagctatgga aatgaccaag tggtttgaca ccaattacca ttacattgtt 240  
 cctgaattgg gtcctgatgt taagttctcc tatgcatcac acaaggctgt cgatgaattt 300  
 aaagaggcca aagttctggg agttaatact gtacctgtgc ttgtgggacc tgtatcctac 360  
 ttgttgctgt caaaaccagc taagggtgtt gaagaagtc tttcccttc tttccctaata 420  
 tgacaagatc cttcctgtct acagggangt tt 452

<210> 2708  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2708

acgtcgcang cacgcgtacg taagctcgga attcggctcg agcaagtggg ttgacaccaa 60  
 ttgccattac attgttcctg aattgggtcc tgatgttaag ttctcctatg catcacacaa 120  
 ggctgtcgat gaattttaaag aggccaaagt tctgggagtt aatactgtac ctgtgcttgt 180  
 gggacctgta tcctacttgt tgctgtcaaa accagctaag ggtgttgaga agtcattttc 240  
 cttcttttcc ctaattgaca 260

<210> 2709  
 <211> 275  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 2709

atcgcattgca cgcgtacgta agctcggaat tcggctcgag caacagccat gcttggggca 60  
 gttccatcta gatataattg gaatgggtgg gagattgggt ttgatgttta cttctcgatg 120  
 gcaagaggga attcatctgt accagctatg gaaatgacca agtgggttga cacaaactat 180  
 cattacattg ttctgaatt ggggccagat gtttaagttct cctatnccat cacacaagg 240  
 tgtggatgaa tacntngagg ctaaagttct gggaa 275

<210> 2710

<211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2710

ntnacgcnta cgtaagctcg gaattcggct cgagctagtc tcctactctc acccgcaaga 60  
 aaaaaaatgg catctcacat cgttggatac ccccgatatg gtcccaagan agagctcaag 120  
 ttcgctctcg agtctttctg ggatggcaag agcagcgccg aggatttgca gaagggtgtct 180  
 tctgatctca gggcatccat ctggaagcag atggctgatg ctgggatcaa gtacatcccc 240  
 agcaacactt tctctcacta tgaccagggt ctcgacgcc a cgcaccct cggtgccgtt 300  
 ccac 304

<210> 2711  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2711

tcgcangcac gcgtacgtaa gctcgggaatt cggctcgagc tccactcaga agcgaagaan 60  
 aagccacaga gaactagtct cctacttctc acccgcaaga naaaaaatggc atctcacatc 120  
 gttggatacc cccgatggtg tcccaagaga gagctcaagt tcgctctcga gtctttctgg 180  
 gatggcaaga ncagcgccga ggatttgcaag aagggtgtct ctgatctcag ggcattccatc 240  
 tggaagcaga tggctgatgc tgggatcaag tacatcccca gcaaacacttt ctctcactat 300  
 gaccagggtt tcgacgccac cgccaccctc ggtgccgttc c 341

<210> 2712  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2712

gtcgcnngca cgcgtacgta agctcgcgaa ttcggctcga ggcgaagaag aagccacaga 60  
 gaaccagtct cctactctct ctacccaca agaaaaatgg catctcacat cgttggatac 120  
 ccccgcatgg gtcccaagag agagctcaag ttcgctctcg agtctttctg ggatggcaag 180

agcagcgccg aggatttgca gaaggtggct gctgatctca ggtcatccat ctggaagcag 240  
atggctgggtg ctgggatcaa gtacatcccc agcaacactt tctcgttcta tgaccagctg 300  
ctcgacgcca ccgccaccct cg 322

<210> 2713  
<211> 328  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2713

ttgtccctc agaagcgaca cngaagccac agagcactag tctcctactc tcacccanca 60  
aganaaaaaat ggcattctcac atcgttggat acccccgtat gggccccaaag agagagctca 120  
agttcgctct cgagtctttc tgggatggca agagcagcgc cgaggatttc agaaggtgtc 180  
ttctgatctc agggcatcca tctggaagca gatggctgat gctgggatca agtacatccc 240  
cagcaacact ttctctcact atgacanggt tctcgacgcc accggcaccc tcggtgccgt 300  
tncaccaagt aggtggancg gcggcgag 328

<210> 2714  
<211> 339  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2714

angcacgcgt acgtaagctc ggaattcggc tcgagctctg cttcaacttg ctccctcaga 60  
agcgaagaag aagccacaga gaaccagtct cctactctct ctcaccacaca agaaaaatgg 120  
catctcacat cgttggatac ccccgcatgg gtcccaagag agagctcaag ttcgctctcg 180  
agtctttctg ggatggcaag agcagcgccg aggatttgca gaaggtggct gctgatctca 240  
ggtcatccat ctggaagcag atggctgggtg ctgggatcaa gtacatcccc agcaacactt 300  
tctcgttcta tgaccagctg ctcgacgcca ccgccaccc 339

<210> 2715  
<211> 296  
<212> DNA  
<213> Glycine max

<400> 2715

catgcacgcg tacgtaagct cggaattcgg ctccgagcac agagaaccag tctcctactc 60  
tctctcacc cacaagaaaaa tggcatctca catcggttga tccccccgca tgggtcccaa 120  
gagagagctc aagttcgctc tcgagtcctt ctgggatggc aagagcagcg ccgaggattt 180  
gcagaaggtg gctgctgac tcaggtcatc catctggaag cagatggctg gtgctgggat 240  
caagtacatc cccagcaaca ctttctcggt ctatgaccag ctgctcgacg ccaccg 296

<210> 2716

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2716

ngtngcangc acgcgtacgt aagctcggaa ttcggctcga gtttgcagaa ggtgtcttct 60  
gatctcaggg catccatctg gaagcagatg gctgatgctg ggatcaagta catccccagc 120  
aacactttct ctactatga ccaggttctc gacgccaccg ccaccctcgg tgccgtccac 180  
caaggtagcg ctggcaccgg cggcgagatt gggtttgata cctacttcnc catggccaga 240  
ggtaatgcta ccgtgccagc tatggagatg accaagtggg tcgacaccaa ctaccacnct 300  
nttgtccc 308

<210> 2717

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 2717

annttnncgt acgtaanctc ggaattcggc tcgagcttgc tccctcanan ncntgaanaa 60  
gccacagaga actagtctcc taactctcac ccgcaagacn aaaaatggca tctcacatcg 120  
ttggntaccc ccgtatnggt cccaagagag agcncaagtt cgctctcgag tctttctggg 180  
atggcaagag cagcgccgag gatttgcaga aggtgtcttc tgatctcagg gcatccatct 240  
ggaagcagat ggctgatgct gggatcaagt acatccccag caacactttc tctcactatg 300  
accaggttct cgac 314



<210> 2718  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2718

gtcgcangca cgcgtacgta agctcggaat tcggctcgag ctccctcaga agcgaagaag 60  
 aagccacaga gaaccagtct cctactctct ctaccccaca agaaaaatgg catctcacat 120  
 cggttggtac ccccgcatgg gtcccaagan agagctcaag ttcgctctcg agtctttctg 180  
 ggatggcaag agcagcgccg aggatttgca gaagggtggct gctgatctca ggtcatccat 240  
 ctggaagcag atggctggtg ctgggatcaa gtacatcccc agcaacactt tctcgttcta 300  
 tgaccag 307

<210> 2719  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 2719

acgcgtacgt aagctcgga ttcggctcga ggcttcaact tgctccctca gaagcgaaga 60  
 agaagccaca gagaaccagt ctctactct ctctcaccca caagaaaaat ggcatctcac 120  
 atcgttggtat acccccgcgt ggggcccaag agagagctca agttcgctct cgagtctttc 180  
 tgggatggca agagcagcgc cgaggatttg cagaagggtg ctgctgatct caggatcatcc 240  
 atctggaagc agatggctgg tgctgggatc aagtacatcc ccagcaacac tttctcgttc 300  
 tatgaccact gctcgacg 318

<210> 2720  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2720

gcacgcgtac gtaagctcgg aattcggctc gagctcagaa ncgaanaaga agccacncna 60  
 gaactagtct cctactctca cccgcaanaa aaaaatggca tctcacatcg ttngataacc 120

cccgatatggg tcccaagaga gagctcaagt tcgctctcga gtctttctgg gatggcaaga 180  
gcagcgccga ggatttgcag aaggtgtctt ctgatctcag ggcatccatc tggaagcaga 240  
tggctgatgc tgggatcaag tacatcccca gcaacacttt ctctcactat gaccaggttc 300  
tcgacgccac cgncaccctc ggtn 324

<210> 2721  
<211> 331  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2721

nncncnngca tncgtacgta agctcggaaat tcggctcgag cggctcgagt tcaacttgc 60  
ccctcagaag cgaagaagaa gccacagaga actagtctcc tactctcacc cgcaagaaaa 120  
aaatggcatc tcacatcggt ggataccccc gtatgggtcc caagagagag ctcaagttcg 180  
ctctcgagtc tttctgggat ggcaagagca gcgccgagga tttgcagnag gtgtcttctg 240  
atctcagggc atccatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca 300  
acactttctc tcactatgac caggttctcg n 331

<210> 2722  
<211> 327  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2722

gttgcangca cgcgtacgta agctcnnga atnctacntc gttggatacc cccgcatggg 60  
ctactctctc tcacccanaa gananntggn atnctacntc gttggatacc cccgcatggg 120  
tcccaagana gagctcnagt tcgctctcga gtctttctgg gatggcnagn ncngcgccga 180  
ggatttggca naaggtggct gctgatctca ggtcatccat ctggaagcag atggctggg 240  
ctgggatcaa gtacntcccc agcaaacactt tctcggttcta tgaccagctg ctcgacgcc 300  
ccgccaccct cgggtgccgc cccccag 327

<210> 2723  
<211> 316

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2723

```
gtcgcacgca cgcgtacgta agctcgggaat tcggctcgag ggctgatgct gggatcaagt   60
acatccccag caacactttc tctcactang accnggtttc tcgacgccac cgcnacccctc  120
gggtgccgttc caccaaggna cggtctggacc ggcggcgaga ttgggtttga tacctacttc  180
tccatggcca nangtaatgc taccgtgcca gctatggaga tgaccaagtg gttcganacc  240
aactancact ttattgtccc tgaatgggcn ctgatgtgaa cttcacctat gcttctcaca  300
aggcngctga tgaana                                     316
```

<210> 2724  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2724

```
cgntnnnaag cgtacgtnag ctcggaattc ggctcgagct tgctccctca gaagcgaaga   60
agaagccaca gagaaccagt ctcctactct ctctcaccca caagaaaaat ggcatctcac  120
atcggttgat acccccgcgt gggctccaag agagagctca agttcgctct cgagtcttct  180
gggatggcaa gagcagcgcc gaggatttgc agaagggtggc tgctgatctc aggtcatcca  240
tctggaagca gatggctggt gctgggatca agtacatccc cagcaacact ttctcgttct  300
atgaccagct gctcgacgcc                                     320
```

<210> 2725  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2725

```
gtcgcangca cgcgtacgta agctcgggaat tcggctcgag ctcagaagcg aagaagaagc   60
cacagagaac tagtctccta ctctcacccg caagaaaaaa atggcatctc acatcgttgg  120
atacccccgt atgggtccca agagagagct caagtctgct ctcgagtctt tctgggatgg  180
```

caagagcagc gccgaggatt tgcagaaggt gtctttctgat ctcagggcat ccatctggaa 240  
gcagatggct gatgctggga tcaagtacat cccagcaac actttctctc actatgacca 300  
g 301

<210> 2726  
<211> 312  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2726

gtngcatgcn cgcgctacgta agctcggnat tcggctcgan ctcgagccga atcggtctga 60  
gagaaaaatg gcatctcaca tcgttagata ccccgcatg ggncccaaga gagagctcaa 120  
gttcgctctc gagtctttct gggatggcaa gagcagcgcc gaggatttgc agaaggtggc 180  
tgctgatctc aggtcatcca tctggaagca gatggctggt gctgggatca agtacatccc 240  
cagcaacact ttctcgttct atgaccagct gctncgacgc caccgccacc ctcggtgccg 300  
tccccccan gt 312

<210> 2727  
<211> 301  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2727

nncgtctcan gcacgcgtac gtnagctcnn naattcggct cgaggaacta gtctcctact 60  
ctcanccnca ananaataat ggcattctgca catgcgntgg atacccccgt atgggtccca 120  
agagnnanct caagttcgct ctcgagtctt tctgggatgg caagagcacc gccgaggatt 180  
tgcagaaggt gtctttctgat ctcagggcat ccatctggaa gcagatngct gatgctggga 240  
tcaagtacat cccanacaac actttctctc actatgacca ggtncctcgac gccnccgcca 300  
t 301

<210> 2728  
<211> 316  
<212> DNA  
<213> Glycine max

angtcgcang	cacgcgtacg	taagctcgga	attcggctcg	agtgcctcaa	cttgctccct	60
cagaagcgaa	gaagaagcca	cagagaacca	gtctcctact	ctctctcacc	cacaagaaaa	120
atggcatctc	acatcgttgg	atacccccgc	atgggtccca	agagagagct	caagttcgct	180
ctcgagtctt	tctgggatgg	caagagcagc	gccgaggatt	tgcagaaggt	ggctgctgat	240
ctcaggtcat	ccatctggaa	gcagatggct	ggtgctggga	tcaagtacat	ccccagcaac	300
actttctcgt	tetatg					316

```
<223>      unsure at all n locations
<400>      2729
```

natctcangc	aagcgtacgt	attctcgnna	ttnggcnaag	aggcttcaac	ttgctccctc	60
agaancgaag	aagaagnnac	agananctan	tctctacttc	tcacccgcaa	gaanaaaatn	120
gcatctcaca	tcgttggata	cccccgatat	ggtcccaaga	gagagctcaa	gttcgctctc	180
gagtctttct	gggatggcaa	gagcagcgcn	gaggatttgc	agaaggtgtc	ttctgatctc	240
agggcatcca	tctggaagca	gatggctgat	gctgggatca	agtacatccc	cagcaacact	300
ttctctcata	tgcaccaggt	tctcgaagcc				330

```
<223>      unsure at all n locations
<400>      2730
```

997

<210> 2731  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2731

tcccgtacgt nagctcggaa ttcggctcgn ggcttcanct tgctccctca gaagcgaaga 60  
 agaagccaca gagaactagt ctcctactcn canccncnag anaaaaatgg catctcacat 120  
 cgttggatac ccccgtatgc gtcccaagan agagctcaag ttcgctctcg agtctttctg 180  
 ggatgcaaga gcagcgccga ggatttgacag aaggtgtctt ctgatctcag ggcatccatc 240  
 tggaagcaga tggctgatgc tgggatcaag tacatcccca gcaaacacttt ctctcactat 300  
 gaccaggttc tcgacgca 318

<210> 2732  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2732

acangcatgc acnggtacgt aagctcggaa ttcggctcga gctctgcttc aacttgctcc 60  
 ctcagaagcg aagaagaagc cacagagaac tagtctccta cttcttcacc cgcaaganaa 120  
 aaatggcatc tcacatcggt ggataccccc gtatgggtcc caaganagag ctcaacttcg 180  
 ctctcgagtc tttctgggat ggcaagagca gcgccgagga tttgcagaag gtgtcttctg 240  
 atctcagggc atccatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca 300  
 acacttt 307

<210> 2733  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 2733

ncgtcgcacg cagcgtacg tnagctcgga attcggctcg agcttcaact tgctccctca 60

gaagcgaaga agaagccaca gagaaccagt ctctactac tactctcacc cacaagaaaa 120  
atggcatctc acatcggttg atacccccgc atgggtccca agagagagct caagttcgct 180  
ctcgagtctt tctgggatgg caagagcagc gccgaggatt tgcagaaggt ggctgctgat 240  
ctcaggtcat ccatctggaa gcagatggct ggtgctggga tcaagtacat cccagcaac 300  
actt 304

<210> 2734  
<211> 333  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 2734

acacnagnaa atantctgca ngcacgcgta cgtaagctcg ncaanncggc tcgnggcttc 60  
aacttgctcn ctcagancnc gaagangaag ccacagagna ccagtctccn nctctntntc 120  
accacaaga naaatgncat ctcacatgcn tggatanccc cgcattgggtc ccnaganaga 180  
gctcaagttc gcntctgagt ctttctggga tggcaagagc agcgccgagg atttgcagaa 240  
ggtggctgct gatctcaggt catccatctg gaagcagatg gctggtgctg ggatcaagta 300  
catccccagc aacactttct cgttctatga cca 333

<210> 2735  
<211> 299  
<212> DNA  
<213> Glycine max  
<400> 2735

agtcgcatgc acgcgtacgt aagctcggaa ttcggctcga gcttgctccc tcagaagcga 60  
agaagaagcc acagagaact agtctcctac tctcaccgc aagaaaaaaaaa tggcatctca 120  
catcgttgga taccctcgta tgggtcccaa gagagagctc aagttcgctc tcgagtcttt 180  
ctgggatggc aagagcagcg ccgaggattt gcagaaggtg tcttctgata tcagggcata 240  
catctggaag cagatggctg atgctgggat caagtacata cccagcaaca ctttctctc 299

<210> 2736  
<211> 333  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        2736

```
agtcgcangc acgcgtacgt aagctcggaa ttcggctcga gtcagaagc gaagancna 60
gccacagaga actagtctgc ctactctcac ccgcaagana aaaatggcat ctcacatgcg 120
ttggataccc ccgtatgggt cccaagagag agctcaagtt cgctctcgag tctttctggg 180
atggcaagag cagcgccgag gatttgcaga aggtgtcttc tgatctcagg gcatccatct 240
ggaagcagat ggctgatgct gggatcaagt acatccccag caacactttc tctcactatg 300
accaggttct tcgacgcnac gccacctcgg tgc 333
```

<210>        2737  
 <211>        320  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2737

```
agtcgcangc acgcgtacgt aagctcgnan attcggctcg agttgctccc tcagcagcna 60
agaagaagcc acagagaact agtactcnct antctcaccc gcaagannna aatggcatct 120
cacatcgntg gatacccccg tatgggtccc aagagagagc tcnagtctgt nctcgagtct 180
ttctgggatg gcaagagcag cgccgaggat ttgcagaagg tgtcttctga tctcagggca 240
tccatctgga agcagatggc tgntgctggg atcaagtaca tccccagcaa cactttctct 300
nactatggcc agttctcnac 320
```

<210>        2738  
 <211>        287  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        2738

```
gtcgcangca cgcgtacgta agctcggaa tccggctcga gtcacctcag aagcgaagaa 60
gaagccacag agaaccagtc tctactttct ctctcaccca caagaaaaat ggcattctcac 120
atcgttggat acccccgcac gggtoccaag agagagctca agttcgctct cgagtctttc 180
tgggatggca agagcagcgc cgaggatttg cagaaggtgg ctgctgatct caggatcatcc 240
```